

MARY

Academic Catalog 1972-73 / Bulletin

WASHINGTON COLLEGE





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Academic Catalog 1972-73

**Mary
Washington
College**

**Fredericksburg,
Virginia 22401**

The **Academic Catalogue** contains detailed information concerning the academic requirements and programs of Mary Washington College, including major programs and course offerings. It also contains a directory listing the members of the faculty and staff and a listing of the graduating class of 1971.

For information concerning admissions requirements, fees and expenses, and financial assistance one should consult the **Admissions Catalogue** which complements this publication. The **Admissions Catalogue** also contains information of a general nature concerning the College, the faculty, and the student life at Mary Washington College.

For detailed information concerning the residential life, social rules and regulations, and clubs and organizations at the College one should consult the **Student Handbook**.

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COLLEGE CALENDAR

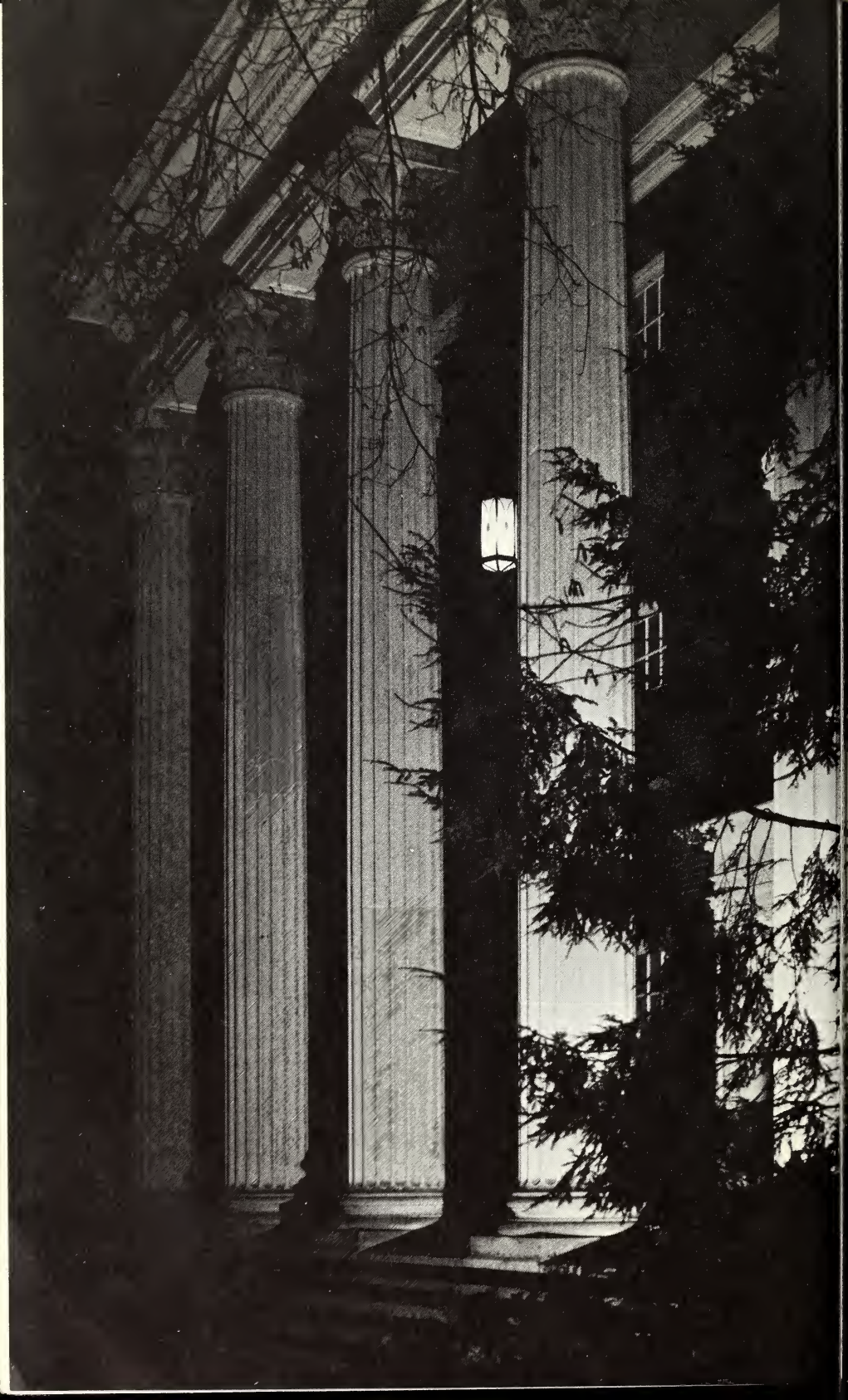
Session 1972-1973

First Semester

Saturday, August 26 Residence halls open
for new students
Monday, August 28 Freshman advising
Tuesday, August 29 New student registration
Wednesday, August 30 Classes begin;
Registration of special and part-time students
Wednesday, September 6 President's Convocation
7:00 p.m. (Ball Circle)
Wednesday, September 13 End of add period
Wednesday, September 27 End of drop period
Tuesday, October 17 Mid-semester grades due
Wednesday, November 22 Thanksgiving holiday
begins at 2:05 p.m.
Monday, November 27 Thanksgiving holiday ends,
classes resume 8:00 a.m.
Thursday, December 7 Second semester registration
Friday and Saturday, December 8-9 Reading days
Monday, December 11-18 Examinations
Friday, December 22 Grades due

Second Semester

Friday, January 12 Residence halls open
for new students
Saturday, January 13 New student registration
Monday, January 15 Classes begin,
Registration of special and
part-time students
Monday, March 5 Mid-semester grades due
Friday-Monday, March 9-19 Spring vacation
Wednesday, May 2 Registration
Thursday-Friday, May 3-4 Reading days
Saturday-Saturday, May 5-12 Examinations
Monday, May 14 Senior grades due
Wednesday, May 16 All grades due
Saturday, May 19 Graduation



ACADEMIC REGULATIONS

The student is responsible for familiarizing himself with the academic rules and regulations of Mary Washington College. This responsibility includes completing, in their proper sequence, all courses required by a specific degree program. A student is also responsible for keeping informed on changes in academic regulations and for adjusting his program as required by such changes.

In addition, the student should know the consequences of failure to remain in good standing; if he is uncertain about his status or his academic responsibilities, he should consult the Dean, the Assistant Dean for Academic Advising or the academic advisers in the Office of the Dean.

ORGANIZATION

Semester Plan

The College is organized on the semester plan, and students may enter at the beginning of either semester. (See College Calendar.) Beginning sections of certain basic courses are offered in the second semester, and students who enter the second semester in January are given special orientation to help them adjust readily to the College.

Summer Session

The Summer Session is an integral part of the school year, offering both regularly established courses and special programs, and workshops of a more experimental nature. The Summer Catalogue is distributed in December or January preceding the summer session.

Although the majority of students spend four years in col-

lege, the work for a degree at Mary Washington College can be completed in three calendar years by attendance at three general sessions and three summer sessions. It is possible to complete a semester's work in each of three courses by attending the eight-week summer term. A vacation period of three to four weeks comes between the close of the summer session and the beginning of the fall semester.

High school graduates who would normally enter college in September may begin with the summer session in June and complete a substantial portion of the first semester's work before the fall term. Summer session catalogues are mailed routinely to students accepted for admission to the college.

Another means of acceleration to a degree program is enrollment in the Special Summer School Program for selected high school seniors. Full details about this program are found in the Admissions Catalogue.

ACADEMIC REGULATIONS

Classification of Students

Freshmen.—Students with fewer than 28 semester hours of credit.

Sophomores.—Students with from 28 to 57 semester hours of credit.

Juniors.—Students with from 58 to 89 semester hours of credit.

Seniors.—Students with as many as 90 semester hours of credit.

Specials.—Students enrolled at the college who are not considered degree candidates.

Student Load

A student's class schedule should be planned carefully each semester in consultation with an academic adviser, taking care both to ensure normal progress toward graduation and to avoid too heavy an academic load.

In the first year of college, a student should register for not less than fourteen or more than seventeen credit hours a semester. After the first year a student should ordinarily carry from fifteen to eighteen credit hours a semester.

No student living in a college residence hall during the

regular session may carry less than twelve semester hours without permission from the Dean of Students.

Excess Hours

Only in exceptional circumstances will a student be allowed to carry excess hours (more than seventeen hours the first year, more than eighteen hours after the first year). Prior written permission to carry excess hours must be obtained from an academic dean.

Change of Schedule or Courses

After registration a schedule may not be changed without consultation with an academic adviser.

Only during the first two weeks of classes may courses be added or changes made to or from Pass/Fail. A student may drop a course during the third and fourth weeks of classes in the Office of the Dean with permission from either an adviser or the deans. If a course is dropped after the fourth week of classes a grade of "F" will be recorded unless the instructor certifies that the student was passing at the time of withdrawal. An automatic grade of "F" will be given to any student who drops a course during the final three weeks of classes, or who drops out of a course without permission.

No credit is allowed for a course in which the student is not officially registered and which is not listed on the class schedule filed with the Registrar.

Class Attendance

In the educational philosophy of the College, the work in the classroom is an essential part of educational development. Therefore, the College encourages and expects regular class attendance, though it does not impose any set rules. An instructor may require a student whose absences are excessive to withdraw from his course. No less than twenty-five percent of the total number of class meetings may be considered excessive. The instructor must announce in the first week of the semester whether he will enforce the excessive cut rule. Each student is responsible and accountable for all tests and all material covered in courses whether he was present in class or not.

Since absences from class immediately preceding or following a holiday are especially discouraged, students should consult the college calendar in making plane and train reservations. Students are not permitted to shift classes or examinations to expedite leaving the College for the week-end, holidays, or any other purpose.

Medical excuses for both residential and day students must be submitted to the College Infirmary, which will make a report to the Registrar's Office for transmission to each instructor.

Students whose class attendance is unnecessarily irregular may be requested to withdraw from the College.

Grading

A student's class performance determines the final grade in any course. Class performance is based on the quality of a student's work as indicated by recitation grades, written tests, examinations, laboratory work, term papers.

Scholarship standing is indicated as follows:

"A" is given for work of unusual excellence.

"B" is given for work distinctly above average.

"C" denotes work of average or medium quality.

"D" is the lowest passing mark and represents work of below average quality.

"Inc." (Incomplete) denotes a course which illness or similar emergency has prevented a student from completing. Incomplete work not made up by the end of the following semester automatically becomes "F."

"F" denotes failure and requires that the course be taken again and passed before credit can be allowed.

"P" Pass. This indicates that the course requirement has been successfully met.

"S" Satisfactory. This indicates that the course requirement in physical education has been successfully met.

"U" Unsatisfactory. This means that the requirement has not been successfully met and an additional course must be taken before credit can be allowed.

Credits earned with a grade of "P" or "S" count towards graduation but carry no quality points.

Pass/Fail—With approval of an adviser, a student may take one such course each semester for elective credit, but not to meet area or major requirements. The student must register as a Pass/Fail student by the end of the initial two-week drop-add period. After that time no change in status is permitted. Because Pass/Fail credits carry no quality points, they neither raise nor lower a student's grade point average. The credits earned count toward graduation, however, and a "P" or "F" is recorded on the student's transcript. Before electing to use a Pass/Fail option, a student should consider its effect on his opportunity to earn academic awards or distinctions. These are calculated on the basis of a specified minimum number of graded credit hours.

Credit by Examination

A student may make written application to a department chairman for examination in an appropriate course (not an independent study or seminar course), for which he has neither been enrolled nor in attendance. If he passes, he will receive the allotted number of credits with a grade of "P" which will neither raise nor lower his grade point average. If he fails the examination, he will receive a grade of "Incomplete" which will become an "F" unless he attends and passes the course, or another equivalent examination, by the end of the semester immediately following. A student may register for the course either for regular credit or on a Pass/Fail basis.

The credit hours will be regarded as part of the student's academic load and if he is a part-time student, he will pay the regular charges per credit hour.

Scholarship Quality Points

A candidate for a degree must have earned at least twice as many quality points as semester hours attempted at Mary Washington College before being permitted to graduate. This means that the student must earn a minimum 2.0 or "C" overall grade point average required for graduation. Courses taken in the major subject in fulfillment of the major pro-

gram requirements must also average at least 2.0 or "C".

The following quality point system enables students to keep constant check on their standing, and to know at all times whether they are maintaining the overall "C" average required by the College.

For each semester hour earned with a grade of "A" four quality points are allowed.

For each semester hour earned with a grade of "B" three quality points are allowed.

For each semester hour earned with a grade of "C" two quality points are allowed.

For each semester hour earned with a grade of "D" one quality point is allowed.

For each semester hour earned with a grade of "P" no quality point is allowed or required.

For each semester hour earned with a grade of "S" no quality point is allowed or required.

In each case the number of semester hour credit in each course is multiplied by the number of quality points assigned to the grade earned in that course. For example, "A" in a course for which three semester hours credit is allowed entitles the student to twelve quality points. In this same course a grade of "B" would entitle the student to nine quality points, "C" to six quality points, and "D" to three quality points. No quality points are earned for grades of "F," "P," "S," or "Incomplete."

A permanent record of quality points earned as well as semester hours attempted and earned is kept in the Registrar's Office. This information is available to students and parents at all times.

Reports, Deficiencies and Failures

Regular reports are mailed to students and parents at the end of each semester. In addition to the semester grades, notice is given of cumulative totals in the number of hours attempted, hours passed, quality points earned, as well as totals in Pass/Fail and P.E. credits.

Students and parents are also notified of unsatisfactory or deficient work in the middle of each semester.

Students with academic deficiencies are urged to make every effort to remove them before the end of the semester, since in order to graduate, they must maintain at least a 2.0 or "C" average in all credit hours attempted, as well as in courses taken to satisfy the major program requirements.

The Dean of the College and the Assistant Deans are ready at all times to confer with students or parents regarding academic problems.

Repeating A Course

Courses may be repeated only with prior written permission from an academic dean.

If a student in attendance repeats and passes a course he has previously failed at the College, his record will be credited with the hours passed and the quality points earned. He will not be charged with additional hours attempted.

If a student repeats for quality points a course already passed, he will not be charged with additional hours attempted or passed. The quality points earned on the second grade for the course will be *substituted* for the quality points originally earned in the course.

Academic Probation and Suspension

Probation

In general, a student is placed on academic probation if he is not making satisfactory progress toward graduation.

1. In terms of credit hours a student will be placed on academic probation if
 - a. in any semester, including the first, he fails more than four semester hours work;
 - b. in any semester he receives grades of D or F on more than 7 semester hours of work, regardless of the total number of hours or quality points;
 - c. at the end of the freshman year he has fewer than 28 semester hours;
 - d. at the end of the third semester he has fewer than 43

- semester hours;
 - e. at the end of the sophomore year he has fewer than 58 semester hours;
 - f. at the end of the fifth semester he has fewer than 73 semester hours;
 - g. at the end of the junior year he has fewer than 90 semester hours.
2. In terms of quality points a student will be placed on probation if
- a. at any time during the first five semesters he falls more than 11 quality points below twice the number of hours attempted;
 - b. at the end of the sixth or seventh semester he does not have twice as many quality points as hours attempted.

Suspension

A student will be suspended if

1. at any time after the end of the first semester he falls more than 6 credit hours below the minimum standards set forth in section 1 under Probation;
2. he falls more than 19 quality points below twice the number of hours attempted;
3. at the end of the sixth or seventh semester he falls more than 9 quality points below twice the number of hours attempted;
4. he incurs probation for a third time. (For reinstatement after suspension, see the Admissions Catalogue.)

As previously noted, a student may be placed on probation or suspended for either a semester hour or quality point deficiency. Under usual circumstances a student will not be granted probationary status for more than two semesters. A student who is suspended for the first time may be readmitted on probation by taking in the summer school of this College at least eight semester hours of new work and earning a "C" average on this work. A student seeking such reinstatement must do so ordinarily in the summer session immediately following the academic suspension.

All decisions on academic probation and suspension are based solely on work actually completed and recorded at the close of the grading period for the semester. *Incompletes* are counted among hours attempted. So if a student faces probation or suspension because of *Incompletes*, he must inform the Dean's office of the emergency responsible for the unfinished courses.

Withdrawal

Voluntary Withdrawal

A student wishing to withdraw from the College must have advance consent of a parent or guardian if he is a minor and must inform the Dean of Students in any case.

Enforced Withdrawal

Students who continuously fail to meet the academic standards of the College may be asked to withdraw or not to return to Mary Washington.

Withdrawal While on Probation

A student who withdraws from the College while on academic probation for academic deficiency normally is not eligible for readmission. Upon request by the student, special consideration for readmission may be granted by the Committee on Admissions.

Marriage

A student entering into marriage prior to college enrollment or during attendance at college (including summer and other vacation periods) is ineligible to remain in residence except with special permission. Any change in status must be discussed in advance with the Dean of Students. Each case is considered on its individual merits.

Transcripts

The Office of the Registrar will issue transcripts or copies of the student's academic record at Mary Washington. Official copies bearing the signature of the Transcript Clerk, the date, and the College seal are sent directly to another

institution or agency. Copies given to the student for her personal use are stamped "student copy." Transcripts are issued only upon written authorization of the student.

RECOGNITION OF ACADEMIC ACHIEVEMENT

The Dean's List

A student carrying at least 12 hours of work on which quality points may be computed and who attains a grade-point average of 3.50 or better for any semester is placed on the Dean's List of Honor Students. Only quality points earned in courses taken for the first time may be counted for academic honors.

Intermediate Honors

A student at Mary Washington College who, as a freshman and sophomore, has achieved a 3.75 grade-point average is awarded Intermediate Honors at the President's Convocation held during the first week of the session. To be eligible for Intermediate Honors, a student must have completed at least 58 credit hours, of which at least 44 must be work on which quality points may be computed.

Final Honors

A student who, as a junior and senior, attains a 3.75 average is awarded Final Honors at the graduating exercises held at the end of the session. To be eligible for Final Honors, a student must have completed at least 58 credit hours during the last four semesters. At least 44 hours must be work on which quality points may be computed.

Academic Distinction

General academic attainment of graduating seniors will be recognized through the awards of Distinction, High Distinction and Highest Distinction, based solely on the student's academic average at Mary Washington College. The level of attainment for each award shall be as follows: Distinction:

3.25; High Distinction: 3.50; Highest Distinction: 3.75. A student may receive both departmental honors and one of the distinction awards.

To be graduated with Distinction, High Distinction or Highest Distinction, a student must have earned at least 94 hours on which quality points may be computed.

Awards

Colgate W. Darden, Jr., Award

This award was established in 1960 in honor of Colgate W. Darden, Jr., who was president of the University of Virginia from 1947 to 1959. It consists of a medal, designed by Gaetano Cecere, formerly of the Art Department, and also a cash sum. It is presented to the senior having the highest academic average.

To be eligible for the Darden Award a student must have earned at least 94 hours on which quality points may be computed.

This award was made in June, 1971, to Mrs. Ingrid Swanson Tarantelli of Elmira, New York.

The Thomas Jefferson Cup

The Thomas Jefferson Cup is presented annually by the Alumnae Association at the Senior Convocation to that member of the graduating class who, during his years at Mary Washington College, has distinguished himself or herself by academic achievement and outstanding service to the College. The award was established in 1944 to commemorate the consolidation of Mary Washington College with the University of Virginia.

This award was made in April, 1971, to Miss Ann Gamble Jefferis of Oreland, Pennsylvania.

Alpha Phi Sigma Award

The Alpha Phi Sigma honorary scholarship fraternity makes an annual award to the junior who made the highest

academic average during the freshman and sophomore years. The presentation is made at the President's Convocation at the opening of the session.

This award was presented in September, 1971, to Miss Sondra Lee Turner of Annandale, Virginia.

Grants for Furthering Undergraduate Research

Funds from a private source are made available annually to support five or more student individual study projects with an allowance of up to \$500 per project. These grants will be awarded on a competitive basis to individual students who have registered for the appropriate course and submitted a specific project proposal to the Dean's Committee on Special Degree Programs. The student's project must be sponsored by a faculty member with the approval of the department chairman.

Proposals should be submitted to the committee before the beginning of classes for the semester during which the project will be pursued. The announcement of awards is made at the end of the second week of classes.



PROGRAM OF STUDIES

DEGREES OFFERED

The College currently offers the degrees of Bachelor of Arts, Bachelor of Science, and Bachelor of Science in Medical Technology. Effective with the Freshmen entering during the 1971-72 school year, the College will confer the degrees of Bachelor of Arts and Bachelor of Arts in Medical Technology.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS

One hundred and twenty-two semester hours of credit are required for the Bachelor of Arts degree, distributed as follows:

- I. **Basic Requirements.** Two one-semester courses or one one-year course will be required in each of the following areas:
 - a. **Literature**, including Classics, English, Modern Foreign Languages.
 - b. **Humanities**, including Art, Dance, Dramatic Arts, Music, Philosophy, Religion, Speech
 - c. **Social Science**, including Economics, Geography, History, Political Science, Psychology, Sociology
 - d. **Natural Science and Mathematics**, including Biology, Chemistry, Geology, Mathematics, Physics

No course fulfilling the basic requirements may be counted toward the major program or toward diversification.

- II. **Diversification.** At least one third of the program of courses required for graduation must be taken in a subject or subjects other than the major subject for a minimum of forty semester hours. The courses satisfying the basic requirements are not part of this one third.
- III. **Major Program.** Up to one third of the degree program may be required in the major program for a maximum of forty semester hours.
- IV. **Electives.** Additional courses must be taken to complete a total of 120 semester hours, exclusive of the required courses in physical education.
- V. **Physical Education.** Each student must take one year of physical education. Up to three additional years of physical education will be credited to the degree, on the basis of one course and one credit per semester.
- VI. **Demonstration of Competence.**
 - a. **English Composition.** Each student must demonstrate competence in English composition, normally by completing successfully a writing workshop (English 101—three credits) in the Department of English. Some students are exempted from participation in the workshop. Such students are notified by letter before registration.
 - b. **Foreign Language.** Each student must demonstrate competence equivalent to the completion of the intermediate-level college course in foreign language. Students who do not have four units of a language in secondary school will be required to take the intermediate course unless excused by the department.

Alternate Degree Program Allowing For Greater Concentration.

This program allows the student with an exceptional background and particular needs to take all courses in as few as two areas and to concentrate up to one half of the courses in one subject.

- 1. Up to one half of the total program may be taken in a major subject.
- 2. Up to three quarters of the total program may be taken

in a single area. Areas are the same as defined under basic requirements in the previous outline.

3. At least one quarter of the total program required for graduation must be taken in an area other than that including the major subject.

Approval for this program may be requested at any time from admission to college through the junior year. Responsibility for approval lies with a committee on special degree programs, which will consult with the appropriate departments concerning the student's preparation if the basic requirements have not been completed at the time of application.

Special Major Program

To assure maximum flexibility, a student may be permitted to pursue a special major program consisting of courses from two or more departments which define a field of concentration. Such a major must be implemented as follows:

1. Courses required for the major will be chosen by mutual agreement of the student and faculty adviser and must have the approval of the Committee on Special Degree Programs.
2. The major program must consist of at least eight courses.

Requirements for the Degree of Bachelor of Arts in Medical Technology

The requirements for this degree are also the same as those for the Bachelor of Arts degree, the specialized courses outlined in the curriculum on pages 33 to 35 constituting the major program.

Major Program

Up to one third of the degree program may be required in the major program for a maximum of forty semester hours.

A major program leading to a degree may be chosen from any one of the following fields:

American Studies	French	Physics
Art	Geography	Political Economy
Asian Studies	Geology	Political Science
Biology	German	Pre-Foreign Service
Chemistry	History	Pre-Medical Science
Classical Civilization	Latin	Psychology
Dance	Latin American	Religion
Dramatic Arts	Studies	Russian Studies
Economics	Mathematics	Sociology
English	Philosophy	Speech Pathology and Audiology

Detailed statements of the requirements for a major program in each of the above fields are given in the section of the catalogue entitled "Course Offerings" (pp. 43 to 143). There are also certain interdepartmental major programs which draw their courses from closely related fields. For the specific schedules of subjects, see pages 26 to 32.

Near the end of the sophomore year, each student should apply to the departmental chairman or the interdepartmental program adviser concerned for permission to undertake a major. In granting this permission, the department will inform the student of the name of his major adviser, who will help him to meet department requirements by outlining a program of studies for the junior and senior years.

Elective Courses

In addition to courses in the major fields listed above, the student may elect to take courses in astronomy, in education, in foreign languages other than those offering a major.

Twelve semester hours in vocational subjects, such as home economics and education, is the maximum allowed for all students.

Teaching

Although Mary Washington does not confer professional degrees in education, students majoring in the various fields who wish to qualify for the Collegiate Professional Certificate can take the necessary courses as electives. See pp. 72 to 77 for sequence of courses leading to the Collegiate Professional Certificate.

The teacher education program has been approved by the National Association of State Directors of Teacher Education and Certification. Reciprocity agreements between a significant number of states make it possible for those who attain Virginia certification through the Mary Washington program to transfer their teaching certification to other states.

Preparation for Graduate Study

A student contemplating graduate work should ascertain the requirements for advanced study in his field and should become familiar with the catalogues of specific graduate schools. As early as possible he should discuss his plans with his adviser, so that he may be guided in his program of studies.

In addition, the student should prepare to meet the language requirements appropriate to his field of advanced study.

Departmental honors programs and various other opportunities for individual study and research may help to qualify students for a graduate scholarship, fellowship, or assistantship. A collection of recent announcements of such awards is available.

The student who applies for admission to the graduate school of a university may be required to take either the Graduate Record Examination or the Miller Analogy Test before application is considered. Information concerning these examinations may be obtained from the Counseling Center.

Foreign Languages

Major programs are offered in French, German, Latin, and Spanish. Requirements for these major programs are listed with the course offerings, but students should consult members of the department before choosing courses in related fields.

Students who choose a major program in a foreign language are expected to participate actively in the work of the departmental club promoting the use of that language.

In addition to the major programs in French, German, Latin and Spanish, sequences of elective courses in Greek, Italian, Japanese, Portuguese and Russian are also offered. Any of these languages may be selected in meeting the foreign language requirements for a degree.

No credit is given for less than one full year of any beginning and intermediate level of a foreign language.

Credit for a single year in a beginning level of foreign language will be allowed only if it is offered in addition to the degree requirements in foreign language.

Sequence of courses and prerequisite requirements must be strictly followed if credit is expected.

Students who plan to continue the study of a language are urged to enroll in a course in that language in their first year at this college. Experience shows that interruption of continuous study may seriously affect progress in a language.

Junior Year Abroad

Mary Washington College participates in various junior year abroad programs. Students completing courses in programs approved by the Dean of the College and the chairman of the department of their major interest may receive appropriate transfer credit toward a degree at Mary Washington.

Mary Washington College also is a member of the Cooperative International Program for Teacher Education (CIPTE) administered by the Council on International Educational Exchange. The CIPTE sponsors four study programs abroad.

Further information may be obtained from the Dean of the College.

Requirements For Graduation

1. An application for a degree must be filed in the Registrar's Office by the end of the second semester of the junior year.
2. A candidate for a degree must complete a recognized major and earn at least 120 semester hours (in addition to two credits in physical education) as well as twice as many quality points as graded credit hours. That is, a student must achieve at least a 2.0 overall average on all graded courses. Only credits earned at Mary Washington College are used in computing a student's grade point average. Credit for courses taken elsewhere may be counted toward graduation but grades in these courses neither raise nor lower academic standing at the College.
3. The number of quality points earned in courses taken to satisfy the requirements of the major program must also equal the required minimum overall 2.0 grade point average.
4. A student failing to have the necessary number of scholarship quality points by the time degree requirements are completed may take additional courses to make up the required number of quality points. All such courses, however, must first be approved by the Dean.
5. A transfer student must also earn at least twice as many quality points as credit hours attempted in all work completed at Mary Washington.
6. Responsibility for meeting the College and major department requirements for a degree rests with the student.
7. A total of at least 60 semester hours of credit from Mary Washington is required for a degree, and, except in the case of cooperative programs, the last semester of a student's work must also be done in residence at the College. At least three fourths of the major program must be completed at Mary Washington College.
8. Courses taken for transfer credit must have advance approval of the Dean; if the transfer credit is meant to be counted toward a major program, advance approval must also be secured from the student's departmental adviser. Correspondence courses are not accepted for transfer credit. Extension classes may be taken for credit only by permission of the Dean and the chairman of the department concerned.
9. Each student must take one year of physical education. Up to three additional years of physical education will be credited to the degree. Only one physical education course may be taken for credit in a single semester.

INTERDEPARTMENTAL MAJORS

Interdepartmental majors are offered in seven fields: (1) American Studies; (2) Asian Studies; (3) Classical Civilization; (4) Latin American Studies; (5) Pre-Foreign Service; (6) the Pre-Medical Sciences; and (7) Russian Studies. These majors offer opportunity for a broader preparation in certain areas of study than that afforded by the traditional departmental majors. Other opportunities for interdepartmental majors are available in the special degree programs described on page 21.

Students who select an interdepartmental major are not required to complete the customary departmental major, but they must fulfill all other requirements for a degree. (See pages 19 to 21).

Since the curriculum for each interdepartmental major is organized in detail, students should plan their programs of study rather carefully in consultation with the adviser listed for the field.

American Studies—Adviser: Mr. Glen R. Thomas

The interdepartmental major in American Studies emphasizes as a foundation a balanced program in the following:

1. American History
2. Literature and Philosophy
3. Social Sciences
4. Fine Arts
5. A knowledge of at least one non-American Civilization.

In addition to four required American Studies seminars, a minimum of twenty-four hours in 300-400 level courses must be taken in a combination of the above areas. Beyond these basic requirements the program stresses flexibility in meeting the interests of the individual majors. A student may, according to his interests, concentrate in one of the above areas.

The general requirements are exactly the same as those for the Bachelor of Arts degree. It is recommended, however,

that prospective majors take Political Science 201-202 to satisfy the requirement in social science.

A major program requires that each student complete the four American Studies seminars in the junior and senior years. No two seminars may be taken concurrently. The remainder of the major program will be planned around the five areas that form the core of the major in close consultation with the program adviser.

Asian Studies—Adviser: Mr. Kurt F. Leidecker

The Asian Studies major differs from the traditional interdisciplinary majors both in subject matter and method of study. It is built around a core curriculum which is so structured that any of its four components may also be taken for credit by students who are not majors in Asian Studies.

The areas covered at present are South, Southeast, Central and East Asia. The major program can be so arranged in consultation with the adviser that it may serve the special interest of the student.

Independent study, honors work, attendance at summer sessions of universities and institutes offering courses in the Asian field or Asian languages, and study abroad during the sophomore or junior year, particularly in the Orient, will be encouraged. Graduate study should not be ruled out as a continuation of the program offered at Mary Washington.

Classical Civilization—Adviser: Mrs. Laura Sumner

This interdepartmental major is centered in classical civilization and culture. Courses in the art, philosophy, history, and literature of ancient Greece and Rome constitute the basic requirements. Either Latin or Greek must be taken in addition to a modern language, and both are recommended.

The general requirements are exactly the same as those for the Bachelor of Arts degree, with these exceptions:

- (1) French, German, Latin or Greek must be taken to satisfy the language requirement.

- (2) Appropriate courses in Philosophy and Art are recommended to satisfy the humanities requirement.

A major program requires that a student earn forty credits in courses in classical civilization.

Twelve credits, in addition to the credits used to fulfill the language requirement, in either Latin or Greek must be included in these hours. Other courses in ancient philosophy, art, civilization and archaeology will be worked out by the student and an adviser.

Latin American Studies—Adviser: Miss Mary Ellen Stephenson

A person wishing to major in Latin American Studies must complete thirty-six hours which the director of the program and his committee accept as forming a coherent program concerned with Latin America. This program must include Readings and Research on Latin America (6 credits). The language requirement of the College must be met with a language of Latin America.

The above program is intended to give students interested in humanities and/or social sciences an opportunity to concentrate on the Latin American region. The course, Readings and Research in Latin America, will be a seminar devoted to selected topics in art, architecture, economics, folklore, geography, history, literature, and politics of Latin America.

Other courses should be drawn from among the following Latin American content courses:

Geography: 334, 335

History: 337, 358, 451, 452

Political Science: 351, 352

Modern Foreign Languages:

Portuguese 491

Spanish 219-220, 228, 237, 239, 240, or 329, 320, 429, 430, 431, 432, 491

In addition, the committee can allow credit for other courses when the particular program of the student seems to warrant this inclusion.

Pre-Foreign Service—Advisers: Mr. Victor Fingerhut, Mr. Kurt F. Leidecker

The interdepartmental major in pre-Foreign Service is a liberal arts program in which the offerings of certain departments are grouped in such a way as to provide a background in international cultural and/or political affairs. The program is not meant to imply any guaranteed or preferred access to the Foreign Service of the United States. However, the course of study provides a firm, cross-cultural undergraduate experience for a student wishing to work in one of the many agencies of the United States directly or, after supplementary training, to enter a business firm overseas, to teach in a foreign country, to join the Peace Corps, to work for a domestic organization, institution or foundation having a foreign department, or to continue language, area, or foreign relations studies at a graduate school.

In satisfying the basic requirements for the Bachelor of Arts degree, students should select the following courses:

1. From among the Department of Philosophy offerings any two three-credit courses at the 100-200 level should be taken to satisfy the Humanities requirement.
2. The modern foreign language to be taken should be the one in which the student comes to Mary Washington College with some proficiency, as determined by the Department of Modern Foreign Languages. This does not preclude the possibility of taking a second foreign language, preferably in the sophomore year.
3. Economics 201-202 or Political Science 101 and 102 must be taken to satisfy the social science requirement.

The major program requires that a student earn 54 credits in recommended courses in the following departments:

Modern Languages	12 credits
Geography	9 credits
Political Science	6 or 9 credits

Economics	9 or 6 credits
History	6 credits
Philosophy	6 credits
English or Psychology or Sociology	6 credits

Ten additional credits are to be selected from cognate courses in various departments. In the event that relevant special courses are announced, the candidate for a degree is expected to take them under this category.

At least one-third of all courses taken must be on the junior and senior levels. Engaging in independent study and participation in honors work, and the Junior Year Abroad are encouraged so as to intensify certain area studies.

Pre-Medical Science—Adviser: Mr. Thomas L. Johnson

The interdepartmental major in pre-medical science is designed as an undergraduate program for students planning to enter schools of medicine and dentistry. It provides a broader basis for further scientific study than the majors in biology or chemistry, but it does not replace majors in these fields. The general requirements are exactly the same as those for the Bachelor of Arts degree with these exceptions:

- (1) French, German, or Russian must be taken to satisfy a language requirement.
- (2) Math 111, 121 or 131; Psychology 201-202; Biology 111 or 121-122; and Chemistry 111-112 must be taken as preparation for advanced courses in the pre-medical sciences.

A major program requires that a student earn thirty-six credits in pre-medical courses. Twenty-eight of the required credits must be:

Chemistry 211-212, Organic Chemistry	8 credits
Chemistry 251, 252, Analytical Chemistry	8 credits
Physics 101-102, General Physics	8 credits
Biology 221, Chordate Anatomy	4 credits

Eight additional credits are to be taken in courses selected from the following:

Biology
Chemistry
Psychology

The above program meets the course requirements for admission to practically all the medical schools, including that of the University of Virginia. However, students are advised to consult the catalogue of the school which they wish to enter for detailed listings of requirements. With permission of the adviser the requirements listed above may be modified to meet the special requirements of particular schools.

Recommended electives are bacteriology, embryology, genetics and other advanced courses in biology. Physical chemistry and calculus are recommended by many medical schools.

Russian Studies—Adviser: Mr. Joseph Bozicevic

The interdepartmental major in Russian Studies combines the study of Russian language and literature with cognate courses chosen from various departments in art, drama, economics, English, geography, history, music, political science, and sociology. The general degree requirements are those for the Bachelor of Arts, with an additional six credit hours in a 200-level Russian language course.

The major program requires a minimum of 36 hours:

Beyond the basic degree requirements and the 18 credits of core courses, the program remains flexible. A student may pursue his course of study concentrating on:

- a) Russian Language and Literature
- b) Social Sciences
- c) A combination of courses from a minimum of five various related disciplines

Core Courses (18 credit hours):

History 357, 358 History of Russia	6 cr.
Russian 221, 222 Introduction to Russian Literature (Selected readings in Russian) ..	6 cr.
Russian 395, 396 Russian Literature in Translation	6 cr.

Other Courses within Major (minimum of 18 credit hours in addition to core courses) to be selected from the following:

Art 214 Medieval Art	3 cr.
Art 312 Early Medieval Art	3 cr.
Dramatic Arts 211, 212 World Drama	6 cr.
Economics 391 Comparative Economic Systems	3 cr.
English 231 Short Fiction	3 cr.
English 232 The Novel	3 cr.
Geography 326 Geography of the Soviet Union	3 cr.
Geography 462 Political Geography	3 cr.
History 235 Early Modern Europe, 1618-1815	3 cr.
History 236 Modern Europe, 1815 to present	3 cr.
History 493, 494 Special Studies in European History	6 cr.
Music 111, 112 Survey of Music	6 cr.
Political Science 302 Comparative Government II	3 cr.
Political Science 361 Problems of Communism	3 cr.
Russian 381, 382 Soviet Russian Literature (Selected readings in Russian)	6 cr.
Russian 491 Independent Study	6 cr.
Russian Studies Seminar	6 cr.
Sociology 492 Special Readings	3 cr.

Additional courses in Russian literature in translation including Pushkin, Tolstoy, Dostoevsky, Gogol, Turgenev, Chekhov, Gorky, and others will be offered in subsequent years.

For possible additional related courses in various departments consult the program adviser.



COOPERATIVE PROGRAMS

Cooperative Program in Medical Technology—

Adviser: Miss Rose Mary Johnson

The College offers a degree program in Medical Technology in cooperation with the University of Virginia School of Medicine. The curriculum covers three sessions of academic work at Mary Washington College, followed by a twelve-month period of specialized training in medical technology.

On successful completion of the fourth academic year the degree of Bachelor of Arts in Medical Technology will be awarded by Mary Washington College. After satisfactory completion of the twelve-month period in the School of Medical Technology at Charlottesville, the student will be eligible to take the examinations for registration and certification by the Board of Registry of Medical Technologists of the American Society of Clinical Pathologists.

The number of students who can be admitted to the final twelve-month training period is limited by the facilities available. Admission to the last year of the program will be based upon scholastic record, demonstrated aptitude, and a personal interview by Medical Technology School representatives. Application for the fourth year should be made about one year prior to entrance. After registration for the second semester of the junior year a transcript must be sent to the Registrar, Registry of Medical Technology, 710 S. Wolcott Avenue, Chicago, Illinois, with \$2.00 evaluation fee, for approval. The interview with Medical Technology School representatives will follow.

In the event that a student enrolled in this program should change his interest or not qualify for admission to the clinical laboratories, he may continue with the regular degree program at Mary Washington College and the courses he has taken may be applied to a major in biology or chemistry.

A suggested outline for the first three years of study is outlined below. It is recommended that the student obtain

a catalogue from the desired school of medical technology as soon as possible so that he may satisfy the specific requirements for entrance to that school.

Curriculum at Mary Washington College

First Year

	Semester-hours
English Composition and/or Literature	3-6
Chemistry 111-112	8
Biology 111 or Biology 121-122	4-8
Electives (foreign language, history, fine arts, social science)	12-18
Total	28-36

Second Year

Literature	0-3
Biology 111 or Biology 121-122	4-8
Chemistry 251-252	8
Electives (foreign language, history, fine arts, social science, calculus, statistics)	18-20
Total	36

*Third Year**

Biology 271	9
Biology 382-383	8
Electives (other biology, foreign language, history, social science, psychology, etc.)	18-20
Total	30-36

*The program for the third year should be planned in consultation with the faculty adviser. Total hours for the three years must be not less than 94.

Curriculum at University of Virginia School of Medicine

Fourth Year

Detailed outlines of the curriculum for the fourth year at the University of Virginia may be obtained from the institution.

The tuition fee for the twelve-month training period at the University of Virginia is \$100.00. This does not include maintenance or uniforms. The following fees are also charged: comprehensive and activity fees, approximately \$150.00. Enrollees are registered as students of the University of Virginia and housing is available in Mary Munford Hall as well as other selected residence halls. (See University of Virginia catalogue for rates, etc.)

The clinical laboratories of the University of Virginia School of Medicine are approved by the Board of Registry of the American Society of Clinical Pathologists and by the Council on Medical Education and Hospitals of the American Medical Association. Students completing the program as outlined meet the requirements of the Registry of Medical Technologists.

Students desiring to enroll in this program should make application to the Director of Admissions, Mary Washington College, Fredericksburg, Virginia.

Cooperative Programs in Physical Therapy—

Adviser: Miss Anna Scott Hoye

There is a need for physical therapists (1) in the fields of general medicine, neurology, orthopedics, and surgery; (2) for work with crippled children; and (3) for specialized services in the hospitals of the Army, Navy, and the Veterans Administration.

Mary Washington College offers two courses of study for preparation of students in physical therapy. One provides two or three years of liberal arts work meeting the prerequisites for specialized training at any approved school of

physical therapy which offers a two-year program. Upon satisfactory completion of the required work, an undergraduate degree in physical therapy will be awarded by the particular medical school attended.

The second program is one in which a student graduates from Mary Washington College with a major in some appropriate field. Post-baccalaureate work may then be taken at an approved school of physical therapy with the possibility of earning graduate credit to be applied toward a master's degree. All courses of study should be worked out in detail with the help of the curriculum adviser.

A suggested outline for the two years of study follows. Substitution may be made with approval of the curriculum adviser. It is recommended that as soon as possible, certainly before the end of the freshman year, the student should make known to the adviser the school she wishes to apply to for professional training, in order that specific prerequisites may be met.

A list of physical therapy schools approved by the Council on Medical Education and Hospitals of the American Medical Association, together with their particular prerequisites for entrance, is made available to each student in the adviser's office.

Suggested curriculum at Mary Washington College

First Year

	Semester-hours
English Composition and Literature Courses	6
Mathematics 111, 121 or 131	6
Biology 111 or Biology 121-122	4-8
Chemistry 111-112	8
Physical Education	2
Total	30

Second Year

English: Sophomore Literature Courses	6
Biology 382-383	8

Psychology 201-202, General Psychology	6
Physics 101-102 (non-scientific)	8
Elective: Social Science	6
Physical Education	2
Total	36

Orientation without credit is offered every year in the form of a professional Physical Therapy Club. All interested students may join and participate in the club's varied activities such as visits to nearby institutions, indoctrination lectures, moving pictures, etc.

Directions for admission to Mary Washington College are to be found elsewhere in this catalogue. Application to the professional school is made at the end of the school year which precedes the last year of study at Mary Washington College.

Cooperative Program in Nursing—
Adviser: Miss Rebecca T. Woosley

The cooperative Program in Nursing between Mary Washington College and the School of Nursing, University of Virginia, is a four year curriculum leading to the degree of Bachelor of Science in Nursing. This program consists of prescribed lower division courses* prerequisite to the nursing major, and an upper division** nursing major.

Required lower division courses are offered by Mary Washington College; the upper division nursing major is offered by the School of Nursing, University of Virginia, in Charlottesville, Virginia. Satisfactory completion of this program qualifies the graduate for beginning positions in hospitals, clinics, doctors' offices, schools, industry, public health nursing and for commissions in military service. Most full-time students can complete this program in four semesters of study at Mary Washington College, one six-week summer session and four semesters at the School of Nursing, University of Virginia.

* First and second year of the program

** Third and fourth year of the program

Initial application for admission to this program is to be made to Mary Washington College. Appropriate application forms may be obtained from the Director of Admissions, Mary Washington College, Fredericksburg, Virginia 22401.

Candidates for admission to the School of Nursing must meet the following requirements:

1. Completion of the lower division courses of the co-operative program in nursing offered by Mary Washington College, Fredericksburg, Virginia.
2. A cumulative grade point average of 2.00 on courses prerequisite to the nursing major.
3. Potential for scholarly achievement and development of professional qualities required of the nurse.

Application Procedure

Very early in the fall semester of the second year at Mary Washington College, students who wish to transfer to the School of Nursing, University of Virginia, should request an application by writing to the Office of Admissions, The Rotunda, University of Virginia, Charlottesville, Virginia 22903. Completed applications must be received by the Office of Admissions before February 1 preceding the summer in which the student expects to enter the nursing program. The student is required to send or have the proper authority send the following to:

Dean of Admissions
The Rotunda, University of Virginia
Charlottesville, Virginia 22903

1. A completed formal application with a recent photograph attached.
2. A transcript of high school record or its equivalent.
3. Scores attained on the Scholastic Aptitude Test of the College Entrance Examination Board.
4. A transcript of all college work at the completion of the second year at Mary Washington College.

Curriculum Leading to Bachelor of Science in Nursing

Lower Division: Courses Prerequisite to the Nursing Major
(Course to be taken at Mary Washington College)

Humanities 12 semester hours

Required:

English Composition

Balance of credit can be taken in any of the following fields: foreign language, literature, religious studies, speech and drama, fine arts, music or philosophy.

Social Sciences 18 semester hours

Required:

General Psychology

General Sociology

Balance of credit can be taken in any of the following fields: psychology, sociology, history, anthropology, economics, government and foreign affairs, geography and political science.

Natural Sciences and Mathematics 23 semester hours

Required:

(minimum)

General Chemistry

Human Anatomy and Physiology

Microbiology or Bacteriology

Balance of credit can be taken in any of the following fields: chemistry, biology, anatomy, physiology, microbiology or mathematics.

Electives To meet minimum
total of hours

Total (Lower Division) 60 semester hours
(not including P. E.)

Curriculum at the University of Virginia

Summer Session

Sem. Hrs.

Nursing I: Introduction to Health Care and Nursing. 6
 The first course in the nursing major, Introduction to Health Care and Nursing, is offered in a six-week summer session on the Grounds of the University of Virginia. Students are required to complete all lower division work prerequisite to the nursing major before enrollment in Introduction to Health Care and Nursing.

Third Year

Sem. Hrs.

Nursing 51: Dynamics of Human Relations 2
 Nursing 53-55: Nursing Needs of Adults and Children . . . 10
 Nursing 60: Interpersonal Relations in Nursing 3
 Nursing 62-64: Nursing Needs of Adults and Children . . . 10
 Commerce 61: Principles of Organization
 and Management 3
 Electives (from areas other than Nursing) 3

Fourth Year

Sem. Hrs.

Nursing 81: Nursing Needs of Adults with Complex
 Medical-Surgical Problems 4
 Nursing 83: Nursing Needs of Patients with
 Emotional Illness 4
 Nursing 85: Nursing Needs of Child-bearing and
 Child-rearing Families with Complex Problems 4
 Nursing 89: Nursing Needs of the Community 4
 Nursing 91: Leadership in Nursing Practice 4
 Nursing 93: Independent Study 2
 Nursing 95: Nursing Elective 2
 Electives. 6

Total (Upper Division) 67

After successful completion of the program, the student is eligible to write the examination for licensure as a registered professional nurse.

Information concerning tuition, expenses, and terms of payment appears in the School of Nursing catalogue which can be obtained by writing the Director of Admissions, School of Nursing, University of Virginia, McKim Hall, Charlottesville, Virginia 22903.

Cooperative Program in Speech Pathology and Audiology—Adviser: Mr. Albert G. Duke

There is an increasing demand for teachers and clinical workers with special training in speech, including speech pathology and audiology. A cooperative program has been established with the University of Virginia to provide a pre-professional program in speech pathology and audiology.

This program provides that the first three years of work (i.e., a minimum of ninety-two semester hours) be taken at Mary Washington College and that the fourth year be spent in residence at the University of Virginia in Charlottesville. Students transferring to Mary Washington College are required to spend two years in residence prior to their senior year at the University. Upon completion of the program at the University of Virginia the student receives a Bachelor of Arts degree from Mary Washington College. Certificates of Clinical Competence in Speech Pathology or Audiology awarded by the American Speech and Hearing Association are obtainable with further specialization at the Master's degree level.

Students interested in the program should apply to the Director of Admissions, Mary Washington College.

A normal course of study for the cooperative program in speech pathology and audiology is as follows:

In their freshman and sophomore years students must complete the basic degree requirements of the College. In doing so, they should select courses in mathematics, American history, health, and psychology to satisfy, in part, the education requirements for speech pathologists in the Commonwealth of Virginia. Electives should be selected in consultation with the program adviser to insure diversification and to incorporate further education requirements. Once these requirements are taken care of, preference in electives should be given to courses in speech, psychology, linguistics.

Speech 361, Voice Science, and Speech 362, Phonetics, are offered in the same alternate years. Students, therefore, should take these courses in either the sophomore or the junior year, depending upon when they are given. A second six hours in speech should be taken in courses available in the other year.

Curriculum at the University of Virginia*Fourth Year*

Semester-hours

Speech Education 106: The Bases of Speech.	3
Speech Education 108: Experimental Phonetics.	3
Speech Education 121: Rehabilitation Programs in Speech and Hearing	3
Speech Education 131: Principles of Speech Correction	3
Speech Education 132: Principles of Speech Pathology	3
Speech Education 133: Diagnostic Techniques in Speech Pathology	3
Speech Education 140: Articulation Disorders.	3
Speech Education 151: Introduction to Audiology	3
Electives	6
Total	30

Observation and Practice Facilities. As a part of the academic program in speech pathology and audiology, observation and supervised practice are required. Opportunities for such are provided by the Speech and Hearing Center and also through established working relationships with such facilities as the Charlottesville City and Albemarle County Public Schools, certain Departments of the University of Virginia Medical Center, the Children's Rehabilitation Center, the Virginia School for the Deaf and the Blind, the Woodrow Wilson Rehabilitation Center for adults, the Veterans Administration Hospital, and the Mobile Clinic of the Virginia Hearing and Speech Foundation, Inc.

COURSE OFFERINGS

Nearly 500 courses in 29 disciplines are offered at Mary Washington College each year. Included are course offerings in American Studies; Art (History of Art, Studio Art); Asian Studies; Astronomy; Biology; Chemistry; Classics (Greek, Latin, Classical Civilization); Dramatic Arts; Economics and Political Science; Education; English; Geography; Geology; History; Home Economics; Latin American Studies; Linguistics; Mathematics; Modern Foreign Languages (French, German, Italian, Japanese, Portuguese, Russian, Spanish); Music; Philosophy; Physical Education (Health, Physical Education, Dance, Recreation); Physics; Psychology; Religion; Sociology; Speech; and Statistics.

Course offerings are divided into lower level (100/200) and upper level (300/400). Courses numbered 100 through 199 are usually regarded as elementary or introductory courses in a particular subject field. Courses numbered 200-289 usually assume some prior study in the subject, either in high school or college. Courses numbered 300 through 489 are advanced courses and usually assume previous course work or special competence in the field. Courses numbered in the 290's and the 490's are respectively lower and upper level individual study courses. All course credits are expressed in semester hours. A course listed as "six credits" is a continuous course for the session of nine months and carries a credit of six semester hours. Courses listed as "three credits each semester" may be taken for a semester only

Continuous courses, of which the student must complete

both semesters to receive any credit, are indicated by hyphens between the numbers, such as Biology 121-122.

Courses for which credit is given for either or both semesters are indicated by commas between the numbers, such as Art 305, 306.

Courses in which the first semester is not prerequisite for the second are indicated by a plus following the number, such as English 371, 372+.

The letter in parenthesis after the course number and title indicates how the course may be scored among the basic requirements:

(L) =Literature, (H) = Humanities, (S) = Social Science, (N/M) = Natural Science and Mathematics, and (D/E) = Diversification or Elective Only.

AMERICAN STUDIES/ *Associate Professor Glen R. Thomas, Adviser*

The following four seminars are designed specifically for American Studies majors, and must be taken in their junior and senior years. These seminars will be open to students by permission of the instructor.

American Studies Seminar 301—*Issues in Contemporary American Culture.* (S)

This seminar is subject to some shift in emphasis from year to year. Generally however, the course content will center around minority groups (Indians, Mountaineers, Mexican-American, Migrant workers and Sharecroppers), the youth culture, and selected current issues in American social philosophy. Readings will emphasize Marcuse, Roszak, Goodman and Reich. Three credits.

American Studies Seminar 302—*The Fine Arts in America.* (H)

This seminar in its three parts includes a consideration of music from McDowell to the present, with emphasis upon Ives, Goiffes, Copland, Sessions and Carter; an historical introduction to modern dance, and a study of selected dramatists of the 20th century, with emphasis upon the contemporary stage. Consideration is given both to aesthetics and to the social and historical context of American fine arts. Three credits.

American Studies Seminar 401—*Mass Media and American Culture.* (H)

An examination of the functions and control of mass media (particularly the broadcast media) and their general role in reflecting and shaping American social values. The media are studied against a background of social thought, including Marcuse, Skinner and McLuhan. Three credits.

American Studies Seminar 402—*The Impact of Darwin and Freud on American Thought.* (S)

A study of the impact of evolution and psychoanalytic theory upon American thought, with special attention to literature, religion, sociology, and psychology. To be taken in the junior year. Three credits.

ART/Professor Pauline G. King, Chairman; **Professor** Binford; **Visiting Artist** Hara; **Associate Professors** Muick, Oliver; **Assistant Professors** Herban, Hochstetler, Imai, Lamph; **Instructor** Lorenz.

Two major programs are offered leading to the B.A. Degree: one in the History of Art, the other in Studio Art.

Any course in the department may be elected by non-majors who have satisfied the prerequisites. Courses in either the history of art or studio art may be taken to satisfy the humanities requirement for the B.A. Degree. Arts 114, 115 or the equivalents are prerequisite for all other art history courses. Arts 101 and 102 or their equivalents are prerequisite for all 200 level courses in studio art except Pottery 251, 252 which incorporates basic design principles. Specific course prerequisites should guide the student in making elective choices on any level.

History of Art Major:

The student is required to take 30 credits beyond the introductory courses, Arts 114 and 115. Therefore, courses valid for the major are those above the 100 level. In order to be considered a prospective major in art history, the candidate must have completed at least six semester hours in introductory art history courses, here or elsewhere. The distribution of courses in the major must include at least three semester hours credit in each of the following areas: Ancient, Medieval, Renaissance, Baroque-Rococo, and Modern (including American Art); at least three semester hours credit are to be taken in a research oriented course, such as Arts 470; 483-484; or 490,491.

Students planning to do graduate work in art history are advised to take a second foreign language among their electives. A reading knowledge of both French and German is required for most graduate work in art history.

In order to assure a well-rounded, liberal arts program, it is recommended that while the student is reviewing courses to fulfill the degree requirements for diversification and electives, in consultation with her adviser, she consider the following suggestions:

Foreign language (French or German)

History courses paralleling art history period courses

Studio art courses

Selections from the following, listed alphabetically: anthropology, archaeology, dramatic arts (211, 212; 361, 362), upper level courses in the literature of any language, music (history and literature), mythology, philosophy, and religion.

Studio Art Major:

The student is required to take 24 credits in studio art more advanced than Art 101 and 102, and 12 credits in art history. Art 101 and 102, or their equivalents, are prerequisite for any 200 level course in studio art except Pottery 251, 252.

A summary of the required sequence of courses is as follows: 9-12 credits are to be selected from courses numbered on the 200 level; at least 12 credits are to be selected from courses numbered on the 300-400 levels.

Students expecting to teach art should see their adviser toward the end of the sophomore year, to be sure that state certification requirements may be met by scheduling the necessary departmental courses. In addition, Art Ed. 342 (described under the Education Department's course listings) is required in the junior or senior year for the prospective art teacher; it must be taken before the student does student teaching.

French, German, and Italian are the languages most useful for the studio art major, insofar as European travel or the ability to read the historical literature of the field are concerned.

Studio Art Courses

Art 101—Two-dimensional Design. (H)

Experiments in the inventive use of materials, tools, and elements of design (e.g. line, shape, texture, value, color, etc.) as related to a two-dimensional surface. The use of figurative and non-figurative imagery in basic non-verbal communication. Given each semester. Two double periods per week. Three credits.

Art 102—Three-dimensional Design. (H)

A development of three-dimensional structures, emphasizing the construction of visual order in space. Exercises and experiences will be provided showing the relationships between two-dimensional and three-dimensional design, through the use of such elements of design as texture, plane relationships, line and color, unity and variety of masses, etc. Both figurative and non-figurative subject-matter will be utilized. Two double periods per week. Three credits.

Art 211, 212+—Life Drawing. (H)

Prerequisite: Art 101, 102 or the equivalent. A variety of approaches to the drawing of organic forms in figurative and non-figurative systems. Study of the human body from the live model in a progression from objective interpretation to subjective expression. Six hours per week. Three credits each semester.

Art 231, 232+—Beginning Sculpture. (H)

Experience in principles of form and design. The study and construction of volume and mass through the use of plastic and carving media. Three double periods per week. Three credits each semester.

Art 241, 242—Drawing and Composition. (H)

Prerequisite: Art 101, 102 or the equivalent. Drawing from life. Abstract and figurative composition in various mediums. Three double periods per week. Three credits each semester.

Art 251, 252+—Pottery and Hand-Building. (H)

A concentrated study of the basic steps and forms of the pottery wheel; exploration of form and texture through various hand-building processes. Three double periods per week. Three credits each semester.

Art 321-322—Printmaking. (H)

Prerequisite: Art 101, 102, and one year of drawing or its equivalent. An introduction to concepts, materials and methods used in printmaking: etching, engraving, aquatint and other intaglio techniques; collagraphy; lithography; relief processes; and serigraphy. Six hours per week. Three credits per semester.

Art 341, 342+—Intermediate Sculpture. (H)

Prerequisite: Art 231, 232+ or its equivalent. Representational and non-representational projects in a variety of media. Three double periods per week. Three credits each semester.

Art 351, 352—Oil Painting. (H)

Prerequisite: Art 241, 242, or its equivalent or examination. Still-life and landscape painting. Three double periods per week. Three credits each semester.

Art 381, 382—Pottery and Hand-Building. (H)

Prerequisite: Art 251, 252+, or its equivalent. A more advanced study of wheel thrown forms; further exploration of hand-building processes; ceramic sculpture, and glaze experiments and firing. Three double periods per week. Three credits each semester.

Art 401, 402+—Figure Painting. (H)

Prerequisite: Art 351, 352, or its equivalent. Nude and costumed figure painting; portraiture. Three double periods per week. Three credits each semester.

Art 495, 496, 497, 498—Individual Study in Studio Art. (H)

Independent work under the supervision of a member of the Studio Art faculty. Three double periods per week. Three credits each semester.

See also Art Ed. 342 Seminar in Art Education (listed under the Education Department).

See also Ed. 440—Supervised Teaching.

History of Art Courses

Art 114, 115—Introduction to the History of Art. (H)

A selective survey of Western Art, treated from a critical, aesthetic, and historical standpoint. Concentration on architecture, painting, and sculpture. Art 114 ends about 1400, and is prerequisite for Art 115, carrying the survey to the present. Three hours per week. Three credits each semester.

Art 310—Art and Archaeology of the Ancient Near East. (H)

Egypt, the Near East, and the Aegean world with emphasis on cultural exchange during the Bronze Age. Three hours per week. Three credits.

Art 312—Early Christian, Byzantine, and Romanesque Art. (H)

Sources and development of Christian art from the time of Constantine through Byzantine art and the subsequent development of Romanesque art and architecture in Europe to 1150.

Art 313—Gothic Art and Architecture. (H)

Emphasis on the emergence of the Gothic style in mid-12th century Europe, stressing its structural and aesthetic development in architecture, painting, and sculpture primarily in France and Italy to 1400.

Art 315—Seventeenth Century Art. (H)

Emphasis on the Carracci and Caravaggio; Bernini and Borromini; Rubens, Rembrandt, and the Dutch landscapists; Poussin and Claude; palace and garden design; Velasquez; the Baroque ceiling. Concurrent emphasis on "the Baroque" as it evolves from "Mannerism," changes in subject matter and technique. Three hours per week. Three credits.

Art 316—Eighteenth Century Art. (H)

Emphasis on French Rococo, its derivations and influences on Continental and British art; the evolution of its forms into the Neo-Classical; the tendencies leading toward romanticism and industrialization. Consideration of the decorative arts as evidence of stylistic change wherever relevant. Three periods per week. Three credits.

Art 317—Northern Art. (H)

Painting and graphics of the Lowlands, France and Germany from the late medieval period through the early sixteenth century. Three periods per week. Three credits.

Art 318—Italian Renaissance Painting. (H)

Painting of the Italian Renaissance and its origins in the social and intellectual climate. Three hours per week. Three credits.

Art 319—Italian Renaissance Architecture and Sculpture. (H)

A treatment of the historic, aesthetic, and theoretical bases for these arts, in the 15th and 16th centuries. Landscape design and city planning as settings will be dealt with where relevant. Three periods per week. Three credits.

Art 335—The Art of Primitive Peoples. (H)

An introduction to the arts of the three major art-producing areas of the primitive world: Negro Africa, Oceania, and North America, but with the emphasis upon Africa. While examples of architecture and painting are discussed, sculpture is stressed. Three periods per week. Three credits.

Art 391—*Georgian Art.* (H)

A study of British art and aesthetics, largely of the eighteenth century, stressing not only portraiture and Palladianism, but the rise of exoticism and nostalgia which show Britain to be the cradle of Romanticism. Three periods per week. Three credits.

Art 411—*Greek Art of the Archaic and Classical Periods.* (H)

Hellenic art from its origins in Early Iron Age II, through the Geometric, Orientalizing, Archaic, and Classical periods, and through the time of Alexander the Great. Three periods per week. Three credits.

Art 412—*Hellenistic and Roman Art.* (H)

Greek art after the death of Alexander the Great; the division of his empire into the Hellenistic Kingdoms and the emergence of various artistic centers. Roman art to the end of the Imperial Period; the development of the native Italic tradition as affected by assimilations of Greek influence. Three periods per week. Three credits.

Art 451—*Nineteenth Century Art.* (H)

Emphasis on French painting and sculpture with some aspects of these arts in other European countries included. The course covers the movements of Classicism, Romanticism, Realism, Impressionism and Post-Impressionism. Three periods per week. Three credits.

Art 452—*Twentieth Century Art.* (H)

A survey of the painting and sculpture of Europe and the United States. Three hours per week. Three credits.

Art 453—*Modern Architecture.* (H)

A study of the outstanding changes in form, style, and technology, with reference to their historical sources and to the individuals who have made lasting contributions. Three credits.

Art 455—*American Art.* (H)

Survey of American painting and sculpture with emphasis on 19th and 20th centuries. Three credits.

Art 470—*Special Studies in Art History.* (H)

Open to all art history majors and otherwise qualified students of junior and senior status who desire a special course in an area of art history previously selected by the department after consultation with the students. The emphasis will be on specific problems or limited periods in art history. Three hours per week. Three credits.

Art 483-484—*Connoisseurship, Research and Gallery Course.* (H)

Prerequisite: permission of the instructor. The course provides the opportunity for studying the theoretical and practical aspects of con-

noisseurship, research and exhibition of works of art, through lectures, field trips, the writing of exhibition catalogs and direct involvement with the college exhibition program. While some professional training is involved, the goal of the course is to provide opportunity for research on actual art objects.

Art 490, 491—Independent Study.

Individual study under the direction of a member of the art history staff. Three credits each semester. (By permission of the department, on the basis of a presentation by the student of her problem, and a description of her method of approach, accompanied by an indication of the part to be played by the art history staff member.)

ASIAN STUDIES/Professor Kurt F. Leidecker, Adviser.

The Asian Studies core course (Asian Studies I-IV) should be taken by majors in Asian Studies as early as possible. Its four components, however, are open singly or in their entirety to all interested students as well.

Asian Studies I—*Languages and Modes of Thought in the Orient.* (H)

The major languages of the region are presented—wherever possible by specialists—with emphasis on their written, phonetic, linguistic and semantic features in order to obtain an insight into the thinking and behavioral patterns of the people speaking these languages. Three credits.

Asian Studies II—*The Religions of the Orient from Animism to Metalogical Systems.* (H)

Man's quest in the Orient for support, comfort and meaning to his existence by searching for and evolving religious concepts is traced in the context of greatly diversified cultures and civilizations as well as natural environments. Three credits.

Asian Studies III—*The Peoplehood of Orientals.* (H)

Various tribes, ethnic groups and nationalities in the region are studied as to their customary and ethical behavior, their awareness of individual and social values, their outlook on life and interpeople relations. Three credits.

Asian Studies IV—*Values and Ideologies in the Cultures of the Orient.* (H)

A determination of the origin, growth, and realization of the ideals of Eastern peoples and their phenomenological expressions in literature as well as the static and performing arts. Three credits.

The following courses offered by different departments are within the scope of Asian Studies.

History of Art 310—*Art and Archaeology of the Ancient Near East*. Three credits.

Dance 332—*Ethnic Dance of Eastern Cultures*. Two credits.

Dance 353—*History of the Dance of the East*. Three credits.

Dramatic Arts 371—*Oriental Theatre*. Three credits.

Political Science 322—*Problems in International Politics*. Three credits.

Political Science 354—*Politics of South and Southeast Asia*. Three credits.

Political Science 355—*Politics of North Africa and the Middle East*. Three credits.

Geography 331—*Geography of East Asia*. Three credits.

Geography 332—*Geography of West Asia*. Three credits.

Geography 462—*Political Geography (Geopolitics)*. Three credits.

History 341, 342—*East Asian Civilization*. Three credits each semester.

History 343—*Modern China and Japan*. Three credits.

History 344—*Modern Southeast Asia*. Three credits.

History 497, 498—*Special Studies in Far Eastern History*. Three credits each semester.

Japanese 101-102—*Beginning Japanese*. Six credits.

Japanese 151-152—*Intermediate Japanese*. Six credits.

Philosophy 311—*Philosophies of India*. Three credits.

Philosophy 312—*Philosophies of China and Japan*. Three credits.

Philosophy 313—*The Philosophy of Buddhism*. Three credits.

Philosophy 352—*Philosophy East and West*. Three credits.

Philosophy 421—*Symbolism*. Three credits.

ASTRONOMY/ Associate Professor Nikolic.

Astronomy 361, 362—*Elementary Astronomy*.

An historical and descriptive survey of the physical universe. Three periods a week. Three credits each semester. Astronomy 361 is a prerequisite to Astronomy 362.

BIOLOGY/Associate Professor Rose Mary Johnson, Chairman; Professors Black, Hoyer, W.C. Pinschmidt, Jr.; Associate Professors T.L. Johnson, Parrish; Assistant Professors Friedman, M.W. Pinschmidt*; Instructors Bass, Wilfong.

The student who wishes to major in biology must complete twenty-four hours of biology above the introductory level and twelve hours in a related field. Upper level courses should

*On Leave of Absence, 1971-72.

include four hours of botany or zoology, four hours of genetics, three of evolution and one hour of seminar.

Biology 111, Biological Principles; Biology 121-122, Biological Concepts; or General Science 101-102, The Character of Science, is a prerequisite for advanced biology courses. Chemistry 111-112, General Chemistry, is a prerequisite for Biology 382-383, Biology 360 and Biology 361. Biology 441 and 442 are not open to non-majors.

It is possible for the biology major to select from three areas of emphasis among the advanced course offerings. These areas are: Environmental Biology, Human Biology, and Physiology. Suggested related fields are chemistry, physics, mathematics, sociology, geology, geography, anthropology or psychology. Calculus, general physics and biochemistry are recommended for the student who desires graduate studies in biology. The major program should be arranged in consultation with a member of the biology faculty.

Biology 111—*Biological Principles.* (N/M)

An introduction to the elements of biological thought. One three hour laboratory and three lecture periods per week. Four credits.

Biology 121-122—*Biological Concepts.* (N/M)

General biological principles as they apply to plants and animals. One three-hour laboratory and three lectures per week. Eight credits.

Biology 202—*Heredity and Evolution.* (N/M)

Principles of heredity and their application to evolutionary theory. Primarily designed for non-majors. Three lectures and one laboratory per week. Three credits.

Biology 221—*Chordate Anatomy.* (N/M)

A comparative study of the major systems of representative chordates. Two single and two double periods per week. Four credits.

Biology 222—*Chordate Embryology.* (N/M)

The development of representative chordates. Two single and two double periods per week. Four credits.

Biology 231—*Botany.* (N/M)

A survey of the plant kingdom with emphasis on morphogenetic description, life histories and evolutionary relationships. Two single and two double periods per week. Four credits.

Biology 251—*The Social Implications of Biology.* (N/M)

A discussion of classic and contemporary biological research and

the subsequent social implications. One single period per week. One credit.

Biology 252—General Ecology. (N/M)

A study of the relationships of plants and animals to their environment and the cyclic phenomena necessary to maintain a balance in nature. Three single periods per week. Three credits.

Biology 271—Microbiology. (N/M)

A survey of micro-organisms with emphasis on bacteria, designed to introduce the student to the morphology, physiology, nutrition and ecology of micro-organisms. Three single lecture periods and two laboratories per week. Four credits.

Biology 311—Plant Ecology. (N/M)

A study of the basic ecological principles as applied to plants including major biomes, plant succession, competition and micro-macro-environments. Two single and two double periods per week. Four credits.

Biology 312—Plant Physiology. (N/M)

Experimental and theoretical treatment of the functional mechanisms in plants. Two single and two double periods per week. Four credits.

Biology 321—Invertebrate Zoology. (N/M)

A survey of the invertebrate phyla with emphasis on structural characteristics, life cycles, and evolutionary relationships. Two single and two double periods per week. Four credits.

Biology 322—Animal Ecology. (N/M)

The relationships between animals and their environment. Field trips and laboratory studies include observations of marine, fresh-water, and terrestrial animals in their natural habitats. Two single periods and six hours of laboratory or field work per week. Four credits.

Biology 331—Vertebrate Histology. (N/M)

The preparation and study of animal tissues. Two single and two double periods per week. Four credits.

Biology 332—Chordate Embryology. (N/M)

The development of representative chordates. Two single and two double period per week. Four credits.

Biology 342—Human Genetics. (N/M)

Application to the human of the principles of heredity. Three single periods per week. Three credits.

Biology 351—Laboratory Techniques. (N/M)

A course designed to introduce biology majors to instruments and equipment used in biological experimentation. The scientific method and experimental design will be discussed. One single and two double periods per week. Three credits.

Biology 360—Cellular Physiology. (N/M)

Principles of general and cellular physiology. Prerequisite: Chemistry 111-112, General Chemistry. Two single and two double periods per week. Four credits.

Biology 361—Comparative Physiology. (N/M)

A comparative study of physiological systems in animals. Prerequisite: Chemistry 111-112, General Chemistry. One three-hour laboratory and three single periods per week. Four credits.

Biology 372—Parasitology. (N/M)

The structure, life cycles, and host relationships of invertebrate parasitic forms. Two single and two double periods per week. Four credits.

Biology 382-383—Human Anatomy and Physiology. (N/M)

A course designed for students in the cooperative programs in nursing and medical technology. The structure and function of the human organism. Prerequisite: Chemistry 111-112, General Chemistry. Three single periods and one three-hour laboratory per week. Eight credits.

Biology/Psychology 392—Behavior Genetics. (N/M) (S)

The relationship between heredity and behavior of organisms including man; an examination of the relations between mechanisms of genetic transmission and gene action, population structure and evolution, and individual behavior differences. Prerequisite: One year of psychology and an introductory course in biology. Three single periods per week. Three credits.

Biology 441—Genetics. (N/M)

Mendelian inheritance and modern concepts of gene structure and function. Two single and two double periods per week. Four credits.

Biology 442—Evolution. (N/M)

The history and development of modern evolutionary thought. Three single periods per week. Three credits.

Biology 450—Seminar. (N/M)

Selected readings, reports and group discussions on topics of historic

and current biological interest. Open to majors each semester of the junior and senior year. One credit.

Biology 475—*Readings in the Biological Sciences.* (N/M)

Independent readings in current or classical biological literature in a field selected by the student. The student is guided by and responsible to a member of the staff. Open to junior and senior majors with permission of the staff. Two credits.

Biology 476—*Special Problems in Biology.* (N/M)

A program of independent laboratory or field investigation for which the student has reviewed the literature and organized his approach in the prerequisite course (Biology 475). The student is guided by and responsible to a member of the staff. Open to junior and senior majors with permission of the staff. Three credits.

Biology 490, 491—*Research.* (N/M)

Four credits per semester. (See statement on Honors).

Honors in Biology

1. To be eligible, a student must have a 3.25 grade point average in biology and a 3.0 over-all average for five semesters. Such a qualified student, in order to become an applicant, must have the approval of the Department of Biology by the end of the first semester of her/his junior year.
2. Biology 475, Readings in Biology, or its equivalent (taken in the second semester of the junior year) will be a prerequisite for Honors work.
3. The approved student must register for Biology 490, 491, Research. A grade of C or less will be given in this course if the Honors Committee decides that the work is not worthy of honors.
4. The chairman of the department will select an Honors Committee composed of three staff members one of which will be the student's adviser for the honors project. The adviser will guide the student in her/his study and determine the most suitable combination of laboratory work and reading for optimum progress toward the student's goal. This adviser will also direct the writing of a thesis and supervise the oral examination.

CHEMISTRY/ *Associate Professor* Bernard L. Mahoney, Jr., Chairman; *Professors* Cover, Insley, Wishner; *Assistant Professors* Crissman, George; *Assistant Instructor* Burke.

A student who intends to major in chemistry should arrange a four-year program in consultation with a member of the chemistry faculty. Chemistry 211, 212, 251, 252, 393, 394, 451 and 452 are required for a major program in chemistry. Chemistry 111-112 is prerequisite for all other chemistry courses. Mathematics 111, 121 is recommended for the freshman year. Mathematics 231 is recommended. Physics 151-152 and Mathematics 221 should be taken before the junior year. French, German or Russian are recommended to fulfill the foreign language requirement.

An honors program consisting of independent research leading to the preparation of a thesis is offered to qualified students for eight credits during the senior year.

Chemistry 111-112—General Chemistry. (N/M)

A course designed to introduce the student to the fundamental principles of chemistry and the more important elements and their compounds. One three-hour and three single periods a week. Eight credits.

Chemistry 211, 212—Organic Chemistry. (N/M)

A study of the chemistry of carbon compounds on the basis of structural theory. One three-hour and three single periods a week. Four credits each semester.

Chemistry 251, 252—Analytical Chemistry. (N/M)

Prerequisite or corequisite: Mathematics 111. The first semester consists of an elaboration of the principles of chemistry with particular emphasis on chemical equilibrium. In the accompanying qualitative analysis laboratory, semi-micro techniques are employed. The second semester consists of the theory and techniques of volumetric, gravimetric, and introductory instrumental analysis. Two single and two three-hour periods a week. Four credits each semester.

Chemistry 317, 318—Biochemistry. (N/M)

Prerequisite: Chemistry 212. The application of chemical principles to the study of living cells and organisms. The laboratory deals with selected research techniques. Three lectures and three laboratory hours a week. Four credits each semester.

Chemistry 333—Advanced Analytical Chemistry I. (N/M)

Prerequisites: Chemistry 251, 252. A study of advanced volumetric and gravimetric analytical techniques with emphasis on electrochemical and optical methods of analysis. One single and two three-hour periods a week. First semester. Four credits.

Chemistry 343, 344—Advanced Inorganic Chemistry. (N/M)

The study of modern theories of atomic structure and chemical bonding and their application to molecular structure. Three single periods a week. Three credits each semester.

Chemistry 393, 394—Physical Chemistry. (N/M)

Prerequisites: Physics 151–152, Chemistry 251, 252, Mathematics 221. A study of the thermodynamic, kinetic, statistical, and quantum mechanical properties of chemical systems. The laboratory portion of the course will deal with physiochemical determinations and the statistical treatment of experimental results. Three single and two three-hour periods a week. Five credits each semester.

Chemistry 411—Advanced Organic Chemistry. (N/M)

Prerequisite: Chemistry 212. The study of organic reaction mechanisms and the relation of molecular structure to physical and chemical properties. Three single periods a week. First semester. Three credits.

Chemistry 414—Identification of Organic Compounds. (N/M)

Prerequisite: Chemistry 212. A study of the use of chemical and spectroscopic methods in the qualitative analysis of organic compounds. One single and two three-hour periods a week. Second semester. Three credits.

Chemistry 434—Advanced Analytical Chemistry II. (N/M)

Prerequisite: Chemistry 251, 252. A study of the theory and application of modern analytical methods as applied to the solution of structural and mechanistic problems. Topics include spectrochemical and electrochemical analysis, mass spectrometry, chemical separations, and computer data processing. One four-hour and three single periods a week. Second semester. Four credits.

Chemistry 451, 452+—Seminar. (N/M)

Student preparation of reports on selected topics in chemistry for oral presentation and discussion. One hour a week. Required of all Chemistry majors in senior year. Others admitted by permission of the chemistry department. One credit each semester.

Chemistry 455, 456—Special Problems in Chemistry. (N/M)

A program of independent investigation under the direction of a member of the staff. Open to qualified students with the permission of

the department. From one to four credits per semester depending upon the quantity of the work planned and completed.

Chemistry 493—*Advanced Physical Chemistry.* (N/M)

Prerequisite: Chemistry 393, 394. An advanced treatment of selected topics in thermodynamics, kinetics, photochemistry, and quantum chemistry. Three single periods a week. First semester. Three credits.

CLASSICS/ *Professor* Laura V. Sumner, Chairman; *Assistant Professor* Jones; *Instructor* Landis.

The Department of Classics offers a major program in Latin. The interdepartmental major in Classical Civilization is also closely allied to the work in the department.

Students who select a major program in Latin must take thirty-six credits in Latin and related subjects. All students are required to take Latin 351, Advanced Latin Grammar. A student who plans to attend graduate school is expected to take Greek and should plan for it early enough in her program to allow at least two years to be taken. The thirty-six hours are to be distributed in the following manner:

For students who enter college with three or four units of high school Latin:

1. Twenty-five credits in Latin selected from the 300 and 400 levels, including Latin 351.
2. In related fields, twelve credits to be selected in consultation with a major adviser.

For students who enter college with one or two units of high school Latin:

1. Twenty-five credits in Latin, not including Latin 113-114, with at least eighteen credits selected from the 300 and 400 levels, including Latin 351.
2. In related fields, twelve credits to be selected in consultation with a major adviser.

For students who start Latin in college:

1. Twenty-five credits, not including Latin 111-112, with at least twelve credits in Latin selected from the 300 and 400 level, including Latin 351.

2. In related fields, twelve credits to be selected in consultation with a major adviser.

Greek

Greek 131-132—*Elementary Greek*. (D/E)

Grammar; composition; Nairn and Nairn *Greek through Reading*. Three periods a week. Six credits.

Greek 133-134—*Intermediate Greek*. (D/E)

Prerequisite: Greek 131-132 or two years of high school credit. Composition in North and Hillard *Greek Prose Composition*; reading of Thucydides, *Athenian Disaster in Sicily*; Plato, *Apology*; Homer, *Odyssey* Book 9. Three periods a week. Six credits.

The following courses are offered whenever there is sufficient demand.

Greek 231-232— (L)

Prerequisite: Greek 133-134. Herodotus, *Histories* Book 6 (selections); Homer, *Iliad* Book 1; Thucydides, Book 2 (selections); composition. Three periods a week. Six credits.

Greek 331-332— (L)

Prerequisite: Greek 231-232. Aeschylus, *Agamemnon*; Aristotle, *Ethics* (selections); Demosthenes, *First Phillipic* (selections). Three periods a week. Six credits.

Greek 431-432— (L)

Prerequisite: Greek 231-232. Plato, *Republic* Books 1-2, 6-7. Three periods a week. Six credits.

Latin

Latin 111-112—*Elementary Latin*. (D/E)

For students who enter college with no training in Latin or with fewer than two units in high school Latin. The essentials of Latin grammar and composition; translations from Caesar and other writers. Three periods a week. Six credits.

Latin 113, 114—*Intermediate Latin*. (D/E)

Prerequisite: Latin 111-112 or two units of high school Latin. Readings from Cicero (orations, letters, essays), Pliny, and later

writers; Virgil's *Aeneid* (Books I-VI); forms and syntax. Three periods a week. Three credits each semester.

Latin 211, 212—Survey of Latin Literature. (L)

Prerequisite: Latin 113, 114 or four units of high school Latin. Students who have three units of high school Latin should consult the chairman of the department before registering for any Latin course. A survey of the great periods of Latin literature with readings from the representative works in drama, poetry, history, and letters. Three periods a week. Three credits each semester.

Latin 213, 214—Medieval Latin. (L)

Prerequisite: Latin 113-114 or comparable high school preparation. May be elected as 300 level course with approval of professor and chairman of department. Three periods a week. Three or six credits. (Not offered in 1971-72).

Latin 311—Roman Drama. (L)

Prerequisite: Latin 211-212. A study of the Roman theatre, Plautus, Terence, and Seneca. Three periods a week. First semester. Three credits.

Latin 312—Roman Satire. (L)

Prerequisite: Latin 211-212. The development of satire in Latin literature. Lucilius, Horace, Phaedrus, Seneca, Petronius, Persius, Martial, Juvenal. Three periods a week. Second semester. Three credits.

Latin 315—Roman Historians. (L)

Prerequisite: Latin 211-212. Roman historical writing. Sallust, Caesar, Livy, Tacitus. Three periods a week. First semester. Three credits.

Latin 316—Epic Poetry. (L)

Prerequisite: Latin 211-212. Three developments of the epic in Latin, Lucretius, Vergil, Lucan. Three periods a week. Second semester. Three credits.

Latin 351, 352 (D/E)

Advanced Latin Grammar and Prose Composition. May be elected for one credit each semester. Required for all majors.

Latin 411—The Ciceronian Age. (L)

Prerequisite: Latin 211-212. Roman life and letters in the last years of the Roman Republic. Cicero, Caesar, Catullus, Lucretius, Livy. Three periods a week. First semester. Three credits.

modern civilizations. Theatre excursions may be arranged. Three periods a week. Three credits each semester.

Dramatic Arts/Dance 235-236—*Movement for the Theatre.* (H)

Prerequisite: two credits of modern dance or proficiency. A study of movement as an instrument of communication in dramatic production through creative projects in the theatre involving the interrelation of movement with mime, gesture, space, rhythm, and expression. Two double periods a week. Four credits.

Dramatic Arts 311, 312—*Stagecraft.* (H)

Construction and design of play production, including theatre design, staging, lighting, and sound effects, with practical application in College Theatre. One single and two double periods a week. Three credits each semester.

Dramatic Arts 321, 322—*Acting.* (H)

General principles of acting; elementary work in voice and pantomime; development and characterization; advanced problems in rehearsal and public performance. Two one-and-one half periods a week. Three credits each semester.

Dramatic Arts 331, 332—*Playwriting.* (H)

The writing of long and short plays or television scripts. Consideration of character development, plot structure, dialogue, and critical analysis. Three periods a week. Three credits each semester. (Offered in alternate years; not offered in 1972-73.)

Dramatic Arts 341—*History of the Costume.* (H)

History and design of stage costuming. Three periods a week for the first semester. Three credits. (Offered in alternate years; not offered in 1972-73.)

Dramatic Arts 361, 362—*History of the Theatre.* (H)

A study of theatre history from the classical Greek to the present, including the place of the theatre in the social, cultural, and philosophical framework of the period. Theatre design, conventions, the actor and audience related to the literature of the theatre. Three periods a week. Three credits each semester.

Dramatic Arts 371—*Oriental Theatre.* (H)

A study of the dramatic literature, theatre and dance of the Orient. Analysis of the plays in the Classic Chinese, Indian, and Japanese theatres, within their artistic and historical settings. Analysis of the conventions and styles of the theatre and dance of the East. Three periods each week for the first semester. Three credits. (Offered in alternate years; not offered in 1972-73.)

Dramatic Arts 381—*Art of Film.* (H)

A survey of the major films from those of George Molies to the contemporary cinema. Films are shown and discussed in class, readings in film theory and critical analysis are assigned. Three credits.

Dramatic Arts 382—*Film Production.* (H)

The art of film is explored by active participation in it. Each student is expected to contribute to the creation of a film as a screenwriter, director, cinematographer, or editor. Three credits.

Dramatic Arts 431, 432—*Directing.* (H)

History, technique, and practice of directing the long and short play. Problems of high school, college, and community theatre. Three periods a week. Three credits each semester.

Dramatic Arts 441—*Dramatic Criticism.* (H)

Analysis of dramatic criticism from Aristotle to the present. Application to representative plays. Three periods a week for the first semester. Three credits. (Offered in alternate years; offered in 1972-73.)

Dramatic Arts 443—*Children's Theatre.* (H)

Staging and production of plays for children. Dramatization of original and adapted literature. Creative dramatics. Three periods a week. Three credits. (Offered in alternate years; not offered in 1972-73.)

Dramatic Arts 451, 452—*Special Studies and Dramatic Arts.* (H)

Open to all Dramatic Arts majors and otherwise qualified students of junior and senior status who desire special studies in the dramatic arts. The emphasis will be upon either intensive reading in drama or creative application of advanced dramatic arts theories. By permission of the department.

Dramatic Arts 461—*Seminar in Dramatic Arts.* (H)

Selected readings, oral presentation, and discussion. Two one-and-one half periods a week. Three credits.

Dramatic Arts 491, 492, 493, 494—*Independent Study.* (H)

Individual study under the direction of a member of the staff. Three to six credits per semester. By permission of the department.

ECONOMICS AND POLITICAL SCIENCE/ *Professor* Lewis P. Fickett, Jr., Chairman; *Professors* Hewetson, R. Sumner; *Associate Professors* Fingerhut, Miller; *Assistant Professors* Albertine, Clatanoff, Manchester; *Instructor* Kramer; *Visiting Lecturer* Krickus.

Economics

A major program in Economics requires the completion of thirty-six credit hours. At least twenty-four of these hours must be in Economics courses other than Economics 201-202, Principles of Economics. Of the twenty-four hours, Economics 321, Money and Banking; Economics 361, Quantitative Economics; Economics 371, Microeconomics; and either Economics 322, a continuation of Money and Banking, or Economics 372, Macroeconomics, are required. The remaining twelve hours may be selected from additional courses in economics, other social sciences, or mathematics as approved.

Economics 101—*Elements of Economics.* (S)

A one semester survey of the basic elements of economic theory. Major emphasis will be placed upon the analysis of those theoretical concepts which are directly applicable to current economic and social problems. Three credits.

Economics 201-202—*Principles of Economics.* (S)

A study of fundamental principles relating to the production, exchange, distribution, and consumption of goods and services for the satisfaction of human wants, including some consideration of basic economic institutions and systems. Six credits.

Economics 211, 212—*Anti-Trust Policy.* (S)

The application of micro-economic analysis to the problems of business organizations. Three credits each semester.

Economics 221, 222—*Introductory Accounting.* (S)

A study of the fundamental accounting principles and practices involved in the recording and interpretation of accounting data. Three credits each semester.

Economics 321, 322—*Money and Banking.* (S)

Prerequisite: Economics 201-202. Theory of money and credit, banking organization and practices, foreign exchange, international movement of capital, and the financial aspects of business cycles. Three credits each semester.

Economics 341, 342—Government Finance. (S)

Prerequisite: Economics 201-202. Expenditures and revenues of federal, state, and local governments, the problems of shifting and incidence of taxes; the public debt and fiscal administration. Three credits each semester.

Economics 351, 352—Labor Economics. (S)

A study of manpower, the labor force, and the organized labor movement. Three credits each semester.

Economics 361, 362—Quantitative Economics. (S)

An introduction to some of the mathematical and statistical concepts as are necessary in advanced economics and econometrics. Three credits each semester.

Economics 371—Microeconomics. (S)

Prerequisite: Economics 201-202. Analysis of the firm and the household and their interactions, involving cost, utility, price, wage, interest, rent, and profit theory. Three credits.

Economics 372—Macroeconomics. (S)

Prerequisite: Economics 201-202. National income accounts and aggregate economic analysis. Three credits.

Economics 381—Urban Economics. (S)

A survey of the major economic problems facing cities. Topics will include an analysis of the economic rationale of cities, land use, housing, urban transportation, and poverty. Three credits.

Economics 391—Comparative Economic Systems. (S)

Prerequisite: Economics 201-202. The nature of capitalism, socialism, communism, and fascism and the state of economic society in the various areas of the world. Three periods a week for first semester. Three credits.

Economics 392—Economic Development. (S)

Prerequisite: Economics 201-202. An examination of the problems of accelerating economic development in poor countries and maintaining development in rich countries. This study will progress from the viewpoints of theory, history and policy in attempting to explain the forces that give long period growing power to an economy. Three credits.

Economics 401, 402—International Economics. (S)

Prerequisite: Economics 201-202. World economic resources, international trade, and economic problems in international relationships. Three periods a week. Three credits each semester.

Economics 441, 442—*History of Economic Thought.* (S)

Prerequisite: Economics 201-202. Survey of ancient and medieval economic thought; the Physiocrats and the mercantilists; the classical and neo-classical economics; and trends in economic thought since the middle of the nineteenth century. Three periods a week. Three credits each semester.

Economics 471, 472—*Independent Study in Economics.* (S)

Directed individual research on an approved problem in economics. Three credits each semester.

Economics 481—*Economics Seminar* (S)

Open to all economics majors of junior and senior status. Group project on an approved problem in economics. Three credits.

Political Science

For a major in Political Science the requirements are twenty-four credits in political science in addition to six hours in Political Science 101, 102. The major program must include Political Science 301, 302, and two of the following theory courses: 441, 442, and 443. The related subjects may be selected from additional courses in Political Science or other social sciences as approved.

Political Science 101—*Introduction to Political Science I.* (S)

A survey of the basic concepts and theories of political science from classical antiquity to the present, including contemporary analytical techniques. Three credits.

Political Science 102—*Introduction to Political Science II.* (S)

A continuation of Political Science 101, placing primary emphasis upon modern comparative political analysis and international relations. Three credits.

Political Science 201, 202—*American Government.* (S)

The principles of political science as applied to American national government, state governments, and local government. Three credits each semester.

Political Science 211—*Congress and the Political Process.* (S)

An analysis of the legislative process in the United States, focused on the contemporary role of Congress in its relation with the Presidency, the federal bureaucracy, and pressure groups. Three periods a week for the first semester. Three credits.

Political Science 212—*The American Presidency.* (S)

An analysis of a fluid institution in a going political system. Stress will be placed on the evolution of the modern presidency and its relationship to democratic theory. Three periods a week for the second semester. Three credits.

Political Science 301—*Comparative Government I.* (S)

A comparative analysis of the governments of the United Kingdom, France, and West Germany. First semester. Three credits.

Political Science 302—*Comparative Government II.* (S)

A comparative analysis of the governments of the Soviet Union and Eastern Europe. Second semester. Three credits.

Political Science 304—*Problems in Contemporary American Politics.* (S)

An in-depth analysis of selected problems in contemporary American politics. The course will be conducted as a seminar with emphasis on independent student research. Permission of the instructor is required for admission. Three periods a week. Three credits.

Political Science 311, 312—*Public Administration.* (S)

The administrative aspects of government, problems of organization, fiscal control, administrative control, and a study of employment relations with personnel administration. Three periods a week. Three credits each semester.

Political Science 321—*Theory of International Politics.* (S)

An analysis of contemporary theory of international politics, including an evaluation of the United Nations and other international organizations. First semester. Three credits.

Political Science 322—*Problems in International Politics.* (S)

A continuation of 321, focusing on the major contemporary problems in international politics such as Vietnam, the Middle East, European integration, and the Cold War. Second semester. Three credits.

Political Science 332—*Metropolitan Problems.* (S)

An analytical study of the problems of American cities and other local areas. Three credits.

Political Science 334—*Political Parties.* (S)

The structure and functions of political parties; the conduct of elections; pressure groups. Three credits.

Political Science 341, 342—*Government Finance.* (S)

Same as Economics 341, 342—Government Finance. Expenditures and revenues of federal, state, and local governments, the problems of

taxes, the public debt and fiscal administration. Three periods a week. Three credits each semester.

Political Science 351, 352—*Political Problems of Latin America.* (S)

A comparative analysis of the problems of political development confronting the nations of Latin America. Appropriate consideration will be given to the closely related problems of general development. Three periods a week for both semesters. Three credits each semester.

Political Science 353—*Politics of Middle and Southern Africa.* (S)

The development of nationalism, the drives for independence and the problems and politics of nation-building of the newly-independent sub-Saharan states. The politics of the white-controlled areas of southern Africa. Regional groupings. Pan-Africanism and other international aspects of African politics. Three credits.

Political Science 354—*Politics of South and Southeast Asia.* (S)

A study of the political development of India, Pakistan, Thailand, Laos, Cambodia and the Vietnams. Problems in the economic development of these nations will be analyzed as related. Three credits.

Political Science 355—*Politics of North Africa and the Middle East.*(S)

A study of the political development of the nations of North Africa and the Middle East. Emphasis will be given to the development of new political institutions in these areas. Three credits.

Political Science 356—*American Foreign Policy.* (S)

Problems facing the United States in its search for national security and international stability and progress; emphasis on our foreign policy since World War II. Three credits.

Political Science 357—*Soviet Foreign Policy.* (S)

An analysis of the foreign policy of the Soviet Union, including its ideological foundations, the Communist International, Soviet policy in Eastern Europe, and the conflict with China. Three credits.

Political Science 361—*Problems of Communism.* (S)

A study of the origins, development and contemporary aspects of world Communism. The evolution of "communist" thought: Marx, Engels, Lenin, Stalin, Mao, and post-Stalin Communist writings. The history and development of Communism as a political movement. The Soviet and Chinese experiences. Communism in the non-Western world. The Sino-Soviet conflict, Eastern Europe and other major features and issues of contemporary world communism. Three credits.

Political Science 422—*American Civil Liberties.* (S)

An intensive analysis of civil liberties in the United States, based primarily upon decisions of the Supreme Court. Three credits.

Political Science 441—*History of Political Thought I.* (S)

An examination of the contributions to political thought of the great political theorists from Plato to Burke. Three credits.

Political Science 442—*History of Political Thought II.* (S)

A continuation of Political Science 441 dealing with Liberalism, Communism, Socialism, Fascism. Three credits.

Political Science 443—*Modern Political Analysis.* (S)

A study of the theories and application of modern political analysis. Emphasis will be placed upon the behavioral approach to politics. Three credits.

Political Science 462—*Geopolitics.* (S)

An examination and evaluation of geographic factors affecting world power struggles and international relations. Three periods a week. Three credits. (Same as Geography 462.)

Political Science 481—*Independent Study in Political Science.* (S)

Directed individual research on approved problems in political science. Three credits.

Political Science 491—*Political Science Seminar.* (S)

Open to all political science majors and otherwise qualified students of junior and senior status who desire to become more familiar with the literature of political science in a field selected by the instructor after consultation with the students. Approval of instructor is required. The emphasis is on intensive reading with group discussions of the selections read. Three period a week. Three credits.

Political Economy and Public Affairs

A major program in Political Economy and Public Affairs requires the student to take Economics 201-202, Principles of Economics, and Political Science 201-202, American Government. In addition to the above courses, the student must take fifteen credit hours in Economics and fifteen credit hours in Political Science selected from courses offered by the department. These courses are to be chosen so as to provide the student with a foundation in either domestic or international public affairs.

EDUCATION/ *Associate Professor Paul Slayton, Chairman; Associate Professor Merchant; Assistant Professors Holmes, Hook, Shaughnessy, and Zisman.*

As a liberal arts institution, Mary Washington College is committed to the preparation of elementary and secondary teachers of the liberal disciplines. The courses necessary for obtaining certification as a teacher in either elementary or secondary schools are available as electives to students at Mary Washington College. The program for teacher preparation at Mary Washington is approved by the National Association of State Directors of Teacher Education and Certification. Consequently, completion of the certification program at Mary Washington will lead to certification in most other states.

To fulfill both the graduation requirements and the teacher certification requirements, the academic adviser and the student should plan the four-year academic program with care. Where it is possible, college and certification requirements should be overlapped to avoid amassing a surplus of credit hours.

Certification Requirements For Grades One Through Seven.

To be certified for the elementary grades, the student must complete course requirements in three areas: general education, professional education, and academic major.

General Education

Must possess a baccalaureate degree with a background of 48 semester hours in general education, including a minimum of:

	Semester Hours
I. English	18
*Composition or exemption	3
*Children's Literature	3

* Indicates specific course required

II.	Social Sciences	18
	*American history	3
	*Economics	3
	*General psychology	6
III.	Mathematics	6
IV.	Science	6
V.	Art and Music	6
VI.	*Health Education	2
VII.	Physical Education	4

Professional Education

	Semester Hours
I. Psychology	6
	*Developmental Psych: Child Development 3
	*Developmental Psych: Adolescent Development 3
II.	*Teaching in the Elementary School 3
	*Teaching of Reading 3
III.	Education 440: Supervised Teaching 6
	(see Supervised Teaching, page 79 .)

Certification Requirements For Secondary School Subjects.

To meet requirements to teach a subject in the secondary school, students must complete work in general education, in professional education, and in the subject to be taught.

General Education

	Semester Hours
I. Humanities	12
	*English composition or exemption . . 3
	and the balance from any of the following fields: foreign language, literature, speech, fine arts, music, or philosophy.

II.	Social Sciences	12
	*American history	3
	*General psychology	6
	Balance from any of the following fields: history, sociology, economics, political science, geography, or psycho- logy.	
III.	Laboratory science and mathematics	12
	(at least one course in each area)	
IV.	*Health education	2
V.	Physical education	2

Professional Education

	Semester Hours
I.	Psychology
	*Developmental Psych: Adolescent De- velopment
II.	300-level education course appropriate to subject area (to be taken during junior year)
III.	Education 420, Foundations of Secondary Edu- cation
IV.	Education 440, Supervised Teaching
	(see Supervised Teaching, page 79 .)

Areas of Specialization

The minimum hours required in the subject taught on the secondary level are itemized below and may include any hours that have been included in the general education requirements. However, a student should major in the subject she wishes to teach so that an adequate depth and background are assured. Student teaching in the secondary school will be permitted only in the student's major subject.

Art	30
Distribution in art courses as follows:	
a. Design, drawing, painting, graphics. .	12

- b. Sculpture 6
- c. Ceramics and crafts 6
- d. History and Appreciation of Art . . . 6

English 30

Shall include courses in English literature, American literature, and linguistics. Should include also a course in advanced composition and writing.

Dramatics 12

Speech 12

Foreign Language 30

Shall include thirty semester hours of language and literature including the beginning, intermediate, and other courses which may have been taken prior to college study.

(Note: For endorsement in a second foreign language the student must present twenty-four hours of credit in that language.)

Latin 24

(NOTE: For endorsement in Latin as a second language or in addition to English the applicant must present eighteen semester hours of Latin language and literature, including the beginning, intermediate, and other courses which may have been taken prior to college study.)

Mathematics

- a. All High School Mathematics 27

(NOTE: Shall include a course in analytic geometry and calculus and should include courses in modern algebra, geometry, probability, and/or statistics.

- b. Teachers of Mathematics (Pre-Algebra). 16

(Eighth and ninth grade arithmetic, consumer mathematics, basic mathematics, and business mathematics.

Music 36

- a. Performance 18

- b. Basic Musical Knowledge 18

History and the Social Sciences 42

The credit shall be distributed as follows:

- a. History 18
- b. Government 12
- c. Economics 6
- d. Geography 6

To teach a specific social science subject, the student must complete the following minimums:

- a. History (selected from not less than two of the following: American history, ancient history, and contemporary affairs) 24
- b. Economics 18
- c. Geography 18
- d. Political Science 18
- e. Sociology 18

NOTE: An applicant for a separate endorsement in history, geography, government or sociology must complete a course in basic economics.

Science

- a. Biology 24
Shall include a laboratory course in introductory biology. In addition a year's course in organic chemistry, physics, and mathematics should be completed.
- b. Chemistry 24
Shall include courses in general principles and organic, analytical, and physical chemistry. In addition a year's course in biology, physics and mathematics should be completed.
- c. Earth Science 24
Shall include a year's course in general college geology and a semester's course in each of two of the following: astronomy, meteorology, oceanography and physical geography.
- d. General Science 24
The student must present credit in at least three science fields: biology, chemistry, physics or earth science.

- e. Physics 20
 Physics, alternate endorsement 16
 All persons with a college major in astronomy or with endorsement in biology, chemistry, or mathematics (all high school subjects) shall be endorsed in physics with sixteen semester hours in physics, eight semester hours of which must be in courses above the introductory level which use calculus.

Education 205—*Children's Literature.* (D/E)

A study of the various sections of children's literature—fables; myths; folk and hero stories; poetry. Open to juniors and seniors only. For elective credit only. Three credits.

Education 312—*Teaching in the Elementary School.* (D/E)

The purposes and organization of the elementary school and its curriculum; subject content and instructional methods related to child growth and development with emphasis on the teaching of subject disciplines, classroom management and evaluation of pupil progress. Three credits.

Education 320—*Teaching Reading in the Elementary School.* (D/E)

A specialized course in the principles and techniques for teaching reading. Major emphasis will be upon the patterns of language development, the structure of the language, the relationship of oral to written communication, and the tools available to the teacher in furthering the general language development of youth. Three credits.

Education 332—*The Teaching of Foreign Languages.* (D/E)

The principles and techniques of teaching modern and classical languages in the secondary school. Some important areas developed are: selecting materials of instruction in foreign languages, planning and guiding learning experiences, and appraising the results of the teaching-learning process. Three credits.

Education 342—*Seminar in Art Education.* (D/E)

Designed for students who expect to teach art, but open to other art majors. Study of the scope and place of the visual arts in the world today; of adult and child attitudes and aptitudes; the development of a philosophy toward creative work, some practice in organizing a flexible and workable program for future teaching or study. Three credits.

Education 352—*The Teaching of Mathematics.* (D/E)

Consideration of principles and techniques of teaching and materials of instruction for teaching mathematics in the secondary school. Some important areas developed are: planning and guiding learning experience in mathematics and appraising the results of the teaching-learning process. Three credits.

Education 362—*The Teaching of Music.* (D/E)

(See Music 311-312 in the listing of courses of the Music Department.) Completion of this course suffices to fill the teaching of subject requirement for certification purposes. Three credits.

Education 372—*The Teaching of the Social Sciences.* (D/E)

The purposes and organization of the secondary social science curriculum; subject matter content and instructional methods in the various social sciences. Some important areas developed are: planning and guiding learning experiences in social science and appraising the results of the teaching-learning process. Three credits.

Education 382—*The Teaching of the Sciences.* (D/E)

The purposes and organization of the secondary science curriculum; subject matter content and instructional methods in the various sciences. Some important areas developed are: planning and guiding learning experiences in science and appraising the results of the teaching-learning process. Three credits.

Education 392—*The Teaching of English and Dramatics.* (D/E)

The purpose and organization of the secondary language arts curricula; subject matter content and instructional methods related to the development of language skills and tastes during the adolescent years. Consideration of principles, techniques, and materials of instruction for teaching English and Dramatics in the Secondary school. Three credits.

Education 420—*Foundations of Secondary Education.* (D/E)

(To be taken concurrently with Education 440.) An analysis of the role of education in the United States. Major emphasis in this course is the survey of the contributions of the foundation disciplines to theory and practice in American schools; history of education, sociology, philosophy, and psychology of learning. Three credits.

Education 430—*Philosophy of Education.* (D/E)

A study of recent and current philosophies of education through the writings of representatives of the major positions. Special emphasis will be given to fundamental educational problems: the nature of the learner, the role of the teacher, the agencies responsible for education, and the philosophical aspects of curriculum and methodology.

Education 440—Supervised Teaching.

(D/E)

Prerequisite: appropriate three-hundred level course in education. Orientation to teaching under direction of supervisors in public elementary and secondary schools in three different geographic localities: the Richmond area, the Fredericksburg area, and the Northern Virginia area. Includes practical experience in the classroom, laboratory, and field activities, as well as other aspects of the total school program. Other regulations governing acceptance into supervised teaching are found below. Offered each semester. Six credits. (See Admissions Catalogue for information concerning fees during off-campus student teaching assignment.)

Supervised Teaching

Facilities for student teaching in both elementary and secondary schools are available in three localities: the Richmond area, the Fredericksburg area, and the Northern Virginia area. Under the cooperative arrangements in effect, students in their senior year are assigned to specific classes for observation, participation, and teaching responsibilities under the guidance and supervision of experienced teachers. Supervised teaching is available in the high school academic subjects and in the elementary grades, as well as in art and music.

Students seeking certification should reserve one semester of the senior year primarily for student teaching. During that semester the student should enroll for Education 440, Student Teaching. A total of twelve hours will be considered a normal load of courses during the student teaching semester; therefore, only two other courses may be taken during the period the student is enrolled in Education 440. (For student teachers choosing assignment in the Richmond and Northern Virginia areas, the Education 420 course will be taught in those areas by members of the Mary Washington College Department of Education. Arrangements for the additional course may be made through colleges in those areas.)

For assignment to supervised teaching, students must meet the eligibility requirements, which include (a) senior status; (b) an average of at least "C" in general and in the major field, and (c) aptitude for the profession. Secondary school teachers must major in the subject they plan to teach as well

as meet the above requirements. Enrollment is by permission of the Department of Education and is contingent on the availability of space in the cooperating school divisions. Transportation to and from the cooperating school is the responsibility of the student. Students applying for positions in supervised teaching should submit the appropriate application forms to the Department of Education by May 1 of their junior year at Mary Washington College for assignments the following session.

ENGLISH/*Associate Professor* Donald E. Glover, Chairman; *Professors* Croushore, B.W. Early, Griffith, W.B. Kelly, S.H. Mitchell, Simpson, Woodward; *Associate Professors* Brown, Fleming, N.H. Mitchell; *Assistant Professors* Carruthers, Dervin, Hanna, Hansen, Kemp, Nadeau, Singh; *Instructors* Fellowes, Lutterbie

Students choosing to major in English must take at least twenty-four credits in English courses numbered 308 or higher and twelve credits in related fields, in addition to the six hours of English that may be used to fulfill the basic degree requirements. The twenty-four hours in advanced English courses must include six hours in courses numbered 308 to 326; six hours in courses numbered 335 to 376; six hours in 400 courses.

It is recommended that English majors who plan to do graduate work take two foreign languages, preferably French and German.

The twelve credits of related study are to be selected, with the approval of the student's adviser, from among the courses numbered 200 or higher in the following departments; six credits must be offered from a single department; the remaining six must be offered from one or more other departments:

Art (courses in Art History)

Classics

Dramatic Arts (courses in dramatic literature and speech 231-232, Oral Interpretation; Drama 381, Art of Film)

History

Languages

Linguistics

Music (courses in the history and literature of music)

Philosophy

Psychology (Psycholinguistics only)

Religion (including Religion 101, 102)

English 101—*Writing Workshop*.

Group and tutorial instruction in the fundamental methods and forms of writing, including logical presentation, research techniques, mechanics of writing, and accurate use of language. Designed for elective credit and to assist students to meet the College requirement that each student demonstrate competence in English composition. Three credits. Offered each semester.

***English 201—*Composition*. (D/E)**

Study designed to assist students already competent in the fundamentals of composition to improve the style and effectiveness of their expository writing. Study of prose models and close analysis of student papers. Three credits.

***English 206—*Introduction to Creative Writing*. (D/E)**

Study aimed at developing skill in creative writing. Individual assignments are adapted to the particular interests and levels of ability of the students. Three credits.

***English 209—*(Non-fiction) Writing for the Mass Media*. (D/E)**

An historical survey of mass communication with emphasis on its role in contemporary society. Special consideration is given to the various techniques of news writing, editing, and editorial interpretation. Three credits.

English 211—*Survey of English Literature*. (L)

Literary movements and types from Beowulf through the Eighteenth Century. Three credits for the first semester.

English 212—*Survey of English Literature*. (L)

Literary movements and types from the Romantic movement to the present. Three credits for the second semester.

English 221—*Survey of American Literature*. (L)

American backgrounds and literary movements and types from the colonial writers through Whitman. Three credits for the first semester.

*These courses do not fulfill the six hour area requirement in Literature.

English 222—*Survey of American Literature.* (L)
 American backgrounds and literary movements and types from Dickinson to the present. Three credits for the second semester.

English 231—*Short Fiction.* (L)
 A study of selected short stories and short novels. Three credits.

English 232—*The Novel.* (L)
 A study of the form, content, and development of selected novels. Three credits.

English 233—*Poetry.* (L)
 A close analysis of poetic form and content. Three credits.

English 234—*Shakespeare.* (L)
 A study of Shakespeare's achievement in selected plays and poems. Three credits. (No additional credit will be allowed for English 425, 426.)

English 235—*Tragedy.* (L)
 Tragedy as form and idea reflected in selected literary and dramatic works of world literature. Three credits.

English 236—*Comedy.* (L)
 A study of comic conventions in selected works of world literature. Three credits.

English 241—*Issues in Literature.* (L)
 Studies in significant literary figures, movements, topics. Three credits each semester.

English 301, 302+—*Literary Criticism.* (L)
 A study of literary criticism from Plato to the present with emphasis on forms other than drama. Readings and class discussions will focus on both historical developments in literary theory and examples of critical practice and practical experience in criticism will be offered. Three credits each semester.

English 305—*The English Language.* (L)
 Structural and transformational grammars and their application to the English language. Semantics in the theory of language. Three credits, offered each semester.

English 308—*Medieval English Literature in Translation.* (L)
 A study of some of the major works and genres of Anglo-Saxon and Middle English literature, including lyric, heroic and romance nar-

ratives and drama. Knowledge of the languages is not required. Three credits for the first semester.

English 315, 316+—*The English Renaissance.* (L)

The non-dramatic poetry and prose of the Elizabethan, Jacobean, and Caroline periods. Three credits each semester.

English 325, 326+—*Eighteenth Century Literature, 1660-1800.* (L)

A study of the main types of literature in England from the Restoration through the eighteenth century, with particular attention to the development of neoclassical values and their decline and the rise of romanticism. Three credits each semester.

English 335, 336+—*Nineteenth Century English Literature.* (L)

First semester, Romantic poetry and prose; second semester, Victorian poetry and prose. Three credits each semester.

English 355, 356+—*Nineteenth Century American Literature.* (L)

First semester, literary romanticism in American prose and poetry; second semester, literary realism in American prose and poetry. Three credits each semester.

English 363—*Contemporary British and American Poetry.* (L)

Studies in British and American poetry from 1930 to the present. Three credits for the first semester.

English 365, 366+—*Modern Literature.* (L)

A comparative study of important European, British, and American authors from 1885 to the present. Three credits each semester.

English 375, 376+—*Special Studies.* (L)

Studies in significant literary figures, movements, topics.

1972-1973 (1st semester) Black Novel

1972-1973 (2nd semester) Contemporary European Fiction

1973-1974 (1st semester) Black Novel

1973-1974 (2nd semester) Contemporary European Fiction

English 406—*Workshop in Writing.* (D/E)

Practice in creative expression. Admission by consent of the instructor. Three credits.

English 411—*Studies in the Drama.* (L)

Major problems, movements, or figures in the drama. Three credits for the first semester.

English 413—*Studies in Poetry.*

(L)

Major problems, movements, or figures in poetry. Three credits for the second semester.

English 415, 416+—*The Novel.*

(L)

Development of the novel in England and America. Three credits each semester.

English 417, 418+—*English Drama.*

(L)

The origin and development of drama from the Middle Ages. First semester, Middle Ages to the Restoration; second semester, the Restoration to the present. Three credits each semester.

English 422—*Chaucer.*

(L)

Chaucer's literary backgrounds and his major works. Three credits for the second semester.

English 425, 426+—*Shakespeare.*

(L)

Shakespeare's development as a dramatist. Three credits each semester.

English 436—*Seventeenth Century Studies.*

(L)

Intensive study of significant figures, movements, or problems in the literature of the seventeenth century. Three credits for the second semester.

English 445—*Eighteenth Century Studies.*

(L)

Intensive study of significant figures, movements, or problems in the literature of the eighteenth century. Three credits for the first semester.

English 455—*Nineteenth Century English Studies.*

(L)

Intensive study of significant figures, movements, or problems in nineteenth century English literature. Three credits for the first semester.

English 466—*Twentieth Century English Studies.*

(L)

An intensive study of a few modern writers. Three credits for the second semester.

English 475—*Nineteenth Century American Studies.*

(L)

Intensive investigation of significant literary figures, movements, or problems in nineteenth century American literature. Three credits for the first semester.

English 486—*Twentieth Century American Studies.*

(L)

Intensive investigation of significant literary figures, movements, or

problems in twentieth century American literature. Three credits for the second semester.

English 490, 491, 492, 493—*Independent Study.*

Individual study under the direction of a member of the staff. From three to twelve hours, not more than six to be taken in the junior year. Three to twelve credits. (By permission of the department.)

GEOGRAPHY/Professor Samuel T. Emory, Jr., Chairman; Associate Professor Bowen; Assistant Professors Byrd, Gouger.

A student wishing to major in Geography must take a total of thirty hours in the department in addition to six hours of introductory geology. The total program must form a coherent group of courses and must be planned in consultation with the student's adviser. Suggested programs are outlined in the *Handbook for Geography Majors*, copies of which may be obtained from the departmental office.

Courses taken to fulfill basic college requirements may not be counted as part of the major program.

A distinguished performance in the major program, in addition to a high level of achievement throughout her college career, will entitle a Geography major to be considered for graduation with "Honors in Geography." The student should consult her adviser for details.

Geography 212—*World Cultural Geography.* (S)

A study of the world by regions, with emphasis on the cultural differences among nations. Three credits.

Geography 275—*Human Environment: Perception and Utilization.*(S)

A study of human ecology stressing the quality of the environment. Emphasis on pollution, resource utilization and conservation, and man's role in changing the face of the earth. Three credits.

Geography 312—*Geomorphology.* (S)

The origin and development of landforms and their relation to underlying structure. Three credits.

Geography 313—*Weather and Climate.* (S)

An analysis of weather processes, distribution of climatic regions,

the relationship between climate, vegetation, and soil regions, and the impact of climate upon man's activities. Three credits.

Geography 320—*Geography of Anglo-America.* (S)

A study of the regional geography of the United States and Canada, stressing differences from place to place in land, landscapes, life, and livelihood. Three credits.

Geography 321—*Geography of Europe.* (S)

A survey of the European continent including the climate, surface features, natural resources, population, agriculture, industry, and trade of each European nation and the nation's position in the world today. Three credits.

Geography 326—*Geography of the Soviet Union.* (S)

A study of the landforms, climate, boundaries, trade, resources, people and cultural groupings of the Soviet Union. Three credits.

Geography 331—*Geography of East Asia.* (S)

A study of the landforms, climate, boundaries, trade, resources, people, and cultural groupings of Eastern Asia, including China, Japan, and Southeast Asia. Three credits.

Geography 332—*Geography of West Asia.* (S)

A study of the landforms, climate, boundaries, trade, resources, people and cultural groupings of Southern and Western Asia, including the Middle East. Three credits.

Geography 333—*Geography of Africa.* (S)

A study of the landforms, climate, peoples, boundaries, trade, and cultural groupings of the African continent. Three credits.

Geography 334—*Geography of South America.* (S)

A survey of the population, natural resources, geographic regions, and potentialities of South America; the significance of this region in the economic and political affairs of the world. Three credits.

Geography 335—*Geography of Middle America and the Caribbean.*(S)

A survey of the population, natural resources, geographic regions, and potentialities of Middle America and the Caribbean; and the significance of this region in the economic and political affairs of the world. Three credits.

Geography 340—*Economic Geography.* (S)

A study of the distribution of economic resources, the trade which results from these resources, their cause and effect. Three credits.

Geography 345—*Urban Geography*. (S)

A study of the site, situation, distribution, function, development and problems of urban centers. Three credits.

Geography 414—*Air Photo Interpretation*. (S)

A study of the principles of photogrammetry, the uses of aerial photographs, and the identification and interpretation of physical and cultural features. Three credits.

Geography 415—*Cartography*. (S)

A study of methods, theory, and practice of map construction. Four credits.

Geography 416—*Advanced Cartography*. (S)

Prerequisite: Geography 415. Four credits.

Geography 418—*Field Geography*. (S)

The study of basic methods of field study in cultural, economic and physical geography climaxing with the in-depth field study of a selected area of geographic interest. Six credits. Summer session only.

Geography 422—*Historical Geography of North America*. (S)

A study of the geography of selected regions of North America during designated periods of history. Emphasis will be placed upon settlement geography, historical economic geography, and geographical change through time. Three credits.

Geography 461—*Geographical Influences on History*. (S)

A study of the influence of man's physical environment on history, with emphasis on American history. Three credits.

Geography 462—*Political Geography*. (S)

A study of geographic factors in world power and international affairs. Three credits.

Geography 480—*History of Geographic Thought*. (S)

A study of the development of theory, philosophy and methods in geography. Three credits.

Geography 490—*Special Problems in Geography*. (S)

An independent study of some geographic problem selected in consultation with the department. May be repeated for credit. Three to six credits.

GEOLOGY/*Professor Samuel O. Bird, Chairman; Assistant Professor Eslinger.*

Students majoring in geology are required to take twenty-four hours in geology including no more than four semesters of 100 and 200 level courses. Majoring students are strongly urged to complete at least one-year courses in calculus, physics and chemistry. Also recommended are analytic and physical chemistry, differential equations, appropriate biology courses and statistics. All programs are to be formed in consultation with geology staff and will include at least twelve hours in courses closely allied to geology.

Geology 120—*Physics and Chemistry of the Earth.* (N/M)

Earth's origin, structure, mineral and rock compositions and environments. Earth's internal energy balance. Two single and one double period per week. Three credits.

Geology 121—*Atmosphere and Hydrosphere.* (N/M)

Physical dynamics of atmosphere and oceans and their interaction. Ocean resources and biologic energy systems. Two single and one double period per week. Three credits.

Geology 122—*Continental Processes.* (N/M)

The origin and evolution of the earth's surface. Two single and one double period per week. Three credits.

Geology 123—*Earth Science Seminar.* (N/M)

Selected topics for students with strong science backgrounds or interests and a penchant for individual, outside-classroom work. Two single and one double period per week. Three credits.

Geology 202—*Introductory Readings in Geology.* (N/M)

A general interest, non-laboratory course dealing with concepts of earth origin and structure, geologic environments, and evolution. The course will not fulfill requirements in major fields of geology or geography and will not count toward area requirements. Three credits.

Geology 220—*Geochemistry.* (N/M)

Investigation of surface and subsurface chemical processes. Monitoring and modeling of natural waters. Two single and one double period per week. Three credits.

Geology 230—Ancient Biologic Systems. (N/M)

Problems of population dynamics, ecology and evolution as seen in the geologic column. Two single and one double period per week. Three credits.

Geology 300—Readings in Geology. (N/M)

Selected topics of investigation for advanced students. Three credits.

Geology 312—Geomorphology. (N/M)

The origin and development of landforms and their relation to underlying structure. Three credits.

Geology 430—Independent Study. (N/M)

Individual investigation of geologic problems to be chosen in consultation with the staff. Three credits.



HEALTH, PHYSICAL EDUCATION, AND RECREATION/
Associate Professor Miriam Greenberg, Chairman; *Professors* Benton, Read; *Associate Professors* Arnold, Droste, Woosley; *Assistant Professors* Clement, Tussey; *Instructors* Dosch, Dragomanovic, Harty, and Kirschner.

A program leading to the B.A. degree with the major in dance is described on page 92.

The following departmental requirements and information should be noted.

1. Each student must take one year of physical education. Up to three additional years of physical education will be credited to the degree, on the basis of one course and one credit per semester.

2. Each student is expected to participate in physical education activities. If a student's health restricts his participation, he is expected to take some modified activity. Such students shall arrange their physical education work in consultation with the chairman of the department.

3. A student may take any course which the department offers on the level for which he is qualified.

4. A student may not enroll in more than one course in physical education during a semester without the approval of the department chairman.

5. Satisfactory/Unsatisfactory. Grades in the Physical Education Department (with the exception of the Dance courses) are S and U. "U" means that the requirement has not been met, and an additional course must be taken. Credits earned with an "S" count towards graduation but carry no quality points.

6. A Satisfactory/Unsatisfactory course is not the same as a Pass/Fail course. They may be taken concurrently at any time.

Health Education

Health Education 100—*Contemporary Health Problems.*
Two periods a week for one semester. Two credits.

Physical Education

All classes meet three periods per week or the equivalent.
All carry one credit.

Physical Education 101, 102; 201, 202; 301, 302; 401, 402*—
Field Hockey. (D/E)

Physical Education 103, 104; 203, 204; 303, 304; 403, 404—
Basketball. (D/E)

Physical Education 105, 106; 205, 206; 305, 306; 405, 406—
Volleyball. (D/E)

Physical Education 109, 110; 209, 210; 309, 310; 409, 410—
Lacrosse. (D/E)

Physical Education 111, 112; 211, 212; 311, 312; 411, 412—
Gymnastics. (D/E)

Physical Education 113, 114; 213, 214; 313, 314; 413, 414—
Individual Exercise. (D/E)

Physical Education 115, 116; 215, 216; 315, 316; 415, 416—
Swimming. (D/E)

Physical Education 117, 118; 217, 218; 317, 318; 417, 418—
Correctives. (D/E)

Physical Education 119—*Fundamentals of Movement.* (D/E)

Physical Education 120—*Introduction to Dance.* (D/E)

Physical Education 121, 122; 221, 222; 321, 322; 421, 422—
Ballet. (D/E)

Physical Education 123, 124; 223, 224; 323, 324; 423, 424—
Modern Dance. (D/E)

Physical Education 125, 126; 225, 226; 325, 326; 425, 426—
Tap Dance. (D/E)

Physical Education 127, 128; 227, 228; 327, 328; 427, 428—
Folk and National Dance. (D/E)

*100 numbers indicate first level; 200 numbers indicate second level,
etc.

Physical Education 129, 130; 229, 230; 329, 330; 429, 430—
American Folk and Square Dance. (D/E)

Physical Education 131, 132—*Officiating.* (D/E)

Physical Education 133, 134; 233, 234; 333, 334; 433, 434—
Tennis. (D/E)

Physical Education 135, 136; 235, 236; 335, 336; 435, 436—
Golf. (D/E)

Physical Education 139, 140; 239, 240; 339, 340; 439, 440—
Archery. (D/E)

Physical Education 141, 142; 241, 242; 341, 342; 441, 442—
Fencing. (D/E)

Physical Education 145, 146; 245, 246; 345, 346; 445, 446—
Badminton. (D/E)

†Physical Education 147, 148; 247, 248; 347, 348; 447, 448—
Riding. (D/E)

Physical Education 249—*Children's Games.* (D/E)

The child and the activities which will benefit him most at the various stages in his development. Three periods a week. One credit.

Recreation 232—*Camp Leadership.* (D/E)

Fundamentals and practice of camping and camp leadership. Two double periods a week. One credit.

Dance

The dance major is designed to provide a liberal arts education as well as a broad dance education. The development of the student as a person by allowing for creative self-expression and by stressing the goal of excellence is viewed

†Written permission of parent or guardian must be presented before enrollment in this course may be completed. Each student will have an opportunity to ride in the annual Horse Show.

also as an aim of the dance major. It offers opportunities for in-depth study in areas of the student's choice: acquiring proficiency in performance or specifically applying dance in other areas (research, therapy, notation, education or criticism). Consequently, this major provides a thorough education while laying a foundation for further study or specialization in the field of dance.

The 40 credits within the major are as follows:

Studio Dance	6
Dance 211, 212, Theories of Movement	6
Dance 231, Compositional Forms	3
Dance 232, Dance Styles	3
Dance 350, 351, 352, 353	
choice of 2 of the History related courses	6
Dance 431, 432, Choreography	6
Additional credits in dance*	10
	<u>40</u>

*Additional credits in dance to be selected from these courses:

Studio Dance	2
Dance 235-236, Movement for the Theatre	4
Dance 310, Creative Dance for Children	3
Dance 331, Ethnic Dance of Western Cultures	3
Dance 341, 342, Labanotation	6
Dance 350, 351, 352, 353, History Related Courses (if not included above)	6
Dance 360, Dance Production	3
Dance 440, Independent Study	3
Dance 450, Seminar in Dance	3
Dance Company (1 credit each semester)	maximum 6

***Dance 121, 122; 221, 222; 321, 322; 421, 422—Ballet. (D/E)**

The study of ballet as a discipline toward exactness and precision of line, as a creative means of expression, and from an historical reference. Three periods a week. One credit each semester.

***Dance 123, 124; 223, 224; 323, 324; 423, 424—Modern Dance.(D/E)**

The study of body movement, its relationship to space, time, and force through improvisation and exploration. Three periods a week. One credit each semester.

Dance 211, 212—Theories of Movement. (H)

The comparison of selected theories of movement. First semester, the contemporary concept of total body movement (applied Anatomy), Laban (effort), and Kinesics. Second semester, Dalcroze (rhythm), Delsarte (gesture), Graham (energy), Humphrey-Weidman (gravity), and Wigman (space). Three periods a week. Three credits each semester.

***Dance 231—Compositional Forms. (H)**

The study of structure of dance: movement phrases, rhythm, and the traditional dance forms such as AB, ABA, Theme and Variations, Fugue, Rondo, and Ground Bass. Three periods a week. Three credits.

Dance 232—Dance Styles. (H)

The study of dance related to historical periods in art, drama and music through reading, research, films, and by improvising and composing dances in primitive, archaic, medieval, pre-classic, classic, and romantic styles. Three periods a week. Three credits.

Dance 235-236—Movement for the Theatre. (H)

Prerequisite: two credits of modern dance or proficiency. A study of movement as an instrument of communication in dramatic production through creative projects in the theatre involving the interrelation of movement with mime, gesture, space, rhythm, and expression. (See also Dramatic Arts 235-236). Two double periods a week. Four credits.

Dance 310—Creative Dance for Children. (H)

Dramatic imagery, rhythmic study, techniques of creativity, and the translation from observation of movement through pantomime to dance. Staging and production of an original dance for children. Two double periods a week. Three credits.

Dance 331—Ethnic Dance of Western Cultures. (H)

Based on an understanding of history, culture, and civilization, the study of "how" and "why" people dance the way they do. Authentic and traditional dance forms and styles of Western Cultures. Three periods a week. Three credits.

*Studio Dance

Dance 332—*Ethnic Dance of Eastern Cultures.* (H)

The study of the dance forms and styles of the people of Eastern Cultures through knowledge and understanding of their history, culture and civilization. Three periods a week. Two credits.

Dance 341, 342—*Labanotation.* (H)

The study and practice of reading and writing a scientifically constructed method of recording movement by means of symbols, leading to certificate examination on the beginning and intermediate levels. Two double periods a week. Three credits each semester.

Dance 350—*Dance History Survey.* (H)

A general survey of History of Dance from earliest times—primitive, Greek, Roman, Egyptian, European, Oriental and Spanish—to the 15th Century. Three credits.

Dance 351—*History of Ballet.* (H)

An in-depth study of the History of Ballet in France, Italy, Russia and England from the 15th Century to the 20th Century. Three credits.

Dance 352—*American Dance Heritage.* (H)

Readings and research, including the American Indian, the social forms, the American Negro, the ballet as developed in America, the indigenous form of theatre dance known as modern dance, and the contemporary dance. Three credits.

Dance 353—*History of the Dance of the East.* (H)

A general survey of the dances of the East (including China, Japan, India, Cambodia) and a comparative study of their influences on contemporary dancer-choreographers, such as Graham, Cunningham and others. Three credits.

Dance 360—*Dance Production.* (H)

Introduction to the practice of stage design, stage lighting, costuming, and make-up specifically for dance, with practical application in college dance productions. One single and two double periods a week. Three credits.

Dance 431, 432—*Choreography.* (H)

Prerequisite: Dance 231, 232 or permission of the instructor. This course provides the student with the opportunity to develop her own creative potential through in-depth study of selected techniques from Compositional Forms and Dance Styles. In addition, the study of contemporary techniques such as multi-media, chance, and free-form are included. Two double periods a week. Three credits each semester.

Dance 440—*Independent Study.*

(H)

Prerequisite: permission of the instructor. Research, reading, writing, choreographing or composing an approved creative problem in dance. Development of a paper, project, performance or production. Three credits.

Dance 450—*Seminar in Dance.*

(H)

Readings and research in contemporary dance in education, in dance therapy, in concepts of aesthetics and philosophy, and subsequent influences on current usage. Students may choose one or two of these areas for her study. Three periods a week. Three credits.

Dance 01—*Dance Company.*

Admission by audition. The art of performing in dance: problems and techniques of performance in ballet and modern dance; in sole and group dances; in repertory; and the learning and presenting of dances in concert. The group will be taught by the dance faculty with team teaching technique. Three rehearsals a week will be scheduled. One credit each semester will be allowed to a maximum of six credits. However, dance company may be taken without credit if the student is admitted by an audition.

HISTORY/*Professor Joseph C. Vance, Chairman; Professor Lindsey; Associate Professors Bourdon, M. Houston, Zimdars; Assistant Professors Crawley, Klenke, Ryang, Tracy, Warner; Instructor Campbell.*

Students who choose a major in history must earn thirty credits in history in addition to the College degree requirement. Twenty-one credits must be devoted to courses above the 200 level and must include at least one semester course on the 400 level in addition to History 490, Independent Historical Research. A student's program **must** be planned in consultation with a departmental adviser and approved by him.

Majors interested in Honors work should consult the chairman of the department. Students who plan to teach in Virginia should note that a course in American history is required for certification.

History 221—*Colonial America.*

(S)

The discovery, exploration, and settlement of North America and the development of the British Colonies to 1763. Three credits.

History 222—*The American Revolution and the Early National Period.* (S)

Independence, the creation of the United States and its development through the Jackson period. Three credits.

History 223—*Civil War, Reconstruction, and The Gilded Age.* (S)

The coming of the War, the War, restoration of the Union and the problems of reconstruction, the emergence of industrial America. Three credits.

History 224—*Twentieth Century America.* (S)

Economic, social, and political development and the rise of the United States as a world power. Three credits.

History 231—*Greek Civilization.* (S)

A study of the geography, history and civilization of Greece from earliest times through the death of Alexander the Great. Three credits.

History 232—*Roman Civilization.* (S)

A study of the geography, history and civilization of Italy and the Roman state from earliest times through the age of Justinian. Three credits.

History 233—*Medieval Europe.* (S)

Europe from 325 to 1400. Emphasis on the decline of the Roman Empire, migrations, the church, feudal institutions, medieval thought and the origins of modern national institutions. Three credits.

History 234—*The Renaissance and Reformation.* (S)

The period examined as one of transition, from the High Middle Ages to 1618. Three credits.

History 235—*Early Modern Europe, 1618-1815.* (S)

A study of Europe during the Age of Absolutism, the Enlightenment, the French Revolution and the Napoleonic Era. Three credits.

History 236—*Modern Europe, 1815 to the Present.* (S)

A survey of the period with emphasis on the Industrial Revolution, nationalism, democracy, imperialism, power politics and social reform. Three credits.

History 301, 302—*Diplomatic History of the United States.* (S)

A study of foreign relations from the Colonial period to the present. Three credits each semester.

History 303, 304—*The Old and New South.* (S)

First semester, an examination of the social, political, and economic development of the South before the Civil War. Second semester, Reconstruction, race relations, the "solid South" in politics, and the rise of Southern industry. Three credits each semester.

History 305—*The Frontier in American History.* (S)

The westward movement and the significance of the Frontier, emphasizing the Turnerian thesis. Three credits.

History 306—*The Negro in American History.* (S)

A history of the Negro since the early 1600's with emphasis on his role during the Ante-Bellum period, Emancipation and Reconstruction, the nadir of the Negro in America (1878-1900), the Negro in the twentieth century with stress on the period since 1928. Three credits.

History 307, 308—*Social and Intellectual History of the United States.* (S)

The main traditions of thought and belief through the writings of significant figures in relation to the social environment and major historical events and cultural changes. Three credits each semester.

History 321, 322—*Latin American History.* (S)

Colonial institutions, the independence movement, development of modern states, Organization of American States, and other international problems. Three credits each semester.

History 323, 324—*Social and Intellectual History of Latin America.* (S)

An intensive study of institutions and thought from prequest Indian cultures to the present. Three credits each semester.

History 341, 342—*East Asian Civilization.* (S)

A survey of the development of culture and civilizations in China and Japan. Three credits each semester.

History 343—*Modern China and Japan.* (S)

A history of modern China and Japan with a special emphasis on their rise to positions of world power. Three credits.

History 344—*Modern Southeast Asia.* (S)

A history of modern Southeast Asia. Three credits.

History 351, 352—*History of England.* (S)

A general survey of English history from earliest records to the present. Emphasis upon the economic and constitutional phases and growth of the British Empire. Three credits each semester.

History 353, 354—*History of France.* (S)

From the earliest time to the present, tracing the growth of the French nation state and the dominant role played by France in the intellectual and cultural life of Europe. Special attention is given to the French Revolution and Napoleon, and the course of French history through the nineteenth century to the present. Three credits each semester.

History 355, 356—*History of Germany.* (S)

From the first appearance of the Germanic peoples in the Roman Empire through the Medieval German Empire, its dissolution and the subsequent fragmentation of the German nation. The Renaissance and humanism; Luther and the Reformation. Particular emphasis on the Romantic movements in philosophy, literature and music. German Nationalism, Bismark's Empire, Hitler and the Third Reich. Three credits each semester.

History 357, 358—*History of Russia.* (S)

Major social, political, economic and cultural developments from the foundation of the Kievan state to the present. First semester, medieval and eighteenth century Russia. Second semester, the revolutionary movement, the fall of the Old Regime, and the Soviet Era. Three credits each semester.

History 359, 360—*History of Spain.* (S)

From the Moorish invasions to the present with particular emphasis upon reconquest, the social and economic development in the sixteenth and seventeenth centuries, the demography of a pre-industrial society, the eighteenth century revolutions and the modern age. Three credits each semester.

History 361, 362—*European Social and Intellectual History.* (S)

Selected studies of representative thinkers from St. Augustine to the present, emphasizing their place in the development of Western thought. Three credits each semester.

History 370—*Historiography.* (S)

Designed to acquaint the student with the major historians, historical writings and trends in the discipline of history and some of the general philosophical theories of history. Three credits.

History 490—*Independent Historical Research.* (S)

An introduction to the methods and tools of historical research with emphasis upon a formal paper, the subject to be chosen by the student. Required of history majors. Offered each semester. Three credits.

The following courses are devoted to special historical periods or topics. Their purpose is to acquaint the student with historical issues and literature by involving him in research and discussion. The focus, form, and content of each Special Studies course will be determined by the instructor. Topics will be announced in the spring for the following academic year after consideration of student interest and staff availability. Prerequisite to all Special Studies courses: appropriate 200 or 300 level course or permission of the instructor.

History 491, 492—*Special Studies in American History.* (S)
Three credits each semester.

History 493, 494—*Special Studies in European History.* (S)
Three credits each semester.

History 495, 496—*Special Studies in Latin American History.* (S)
Three credits each semester.

History 497, 498—*Special Studies in Far Eastern History.* (S)
Three credits each semester.

HOME ECONOMICS/Assistant Professors R. Harris, Jamison.

The Home Economics Department is concerned with implementing the liberal arts program through courses which help prepare students to meet basic and human needs for effective living and for responsible participation in the community and the world. The Department of Home Economics offers as electives courses for students in any curriculum. Credit may not be included in the total hours required for graduation if the student is fulfilling certification requirements (see page 72).

Home Economics 104—*International Foods.* (D/E)

A study of food patterns of various cultural groups and the way they meet the dietary needs of the people. Emphasis on the interrelationships of the contributions of Asian, European, African, Central and Latin American civilizations. Demonstrations of the preparation of typical meals of different cultures. One single and one double period a week. Two credits.

Home Economics 112—*Art of Costume.* (D/E)

How the fashion world works, fashion cycles, designers, and leading markets. Consideration given to the theories of dress and adornment with implications for individual applications. Two single periods. Two credits.

Home Economics 211, 212+—*Contemporary Costume.* (D/E)

Consideration given to twentieth century clothing. Study of the factors influencing apparel design, as well as the newer techniques in both couturier and mass production methods of clothing construction. Lecture-demonstrations and laboratory hours. Three credits each semester.

Home Economics 214—*Costume Design.* (D/E)

A creative approach to the study of dress and adornment. Original designs developed and creativity expressed through various media. Lecture-demonstrations and laboratory hours. Three credits.

Home Economics 221, 222+—*Foods.* (D/E)

Basic principles and fundamental processes involved in the selection and preparation of foods; emphasis on the aesthetic and sociological aspects of menu planning. Two double periods a week. Three credits each semester.

Home Economics 231—*Nutrition.* (D/E)

Principles of human nutrition and how such knowledge may be utilized to prevent ill health and promote a high level of physical fitness. Two single and one double periods a week. Three credits.

LATIN AMERICAN STUDIES/Professor Mary Ellen Stephenson, Adviser.

Latin American Studies 301, 302—*Readings and Research in Latin America.* (H)

A study of selected topics in art, architecture, economics, folklore, geography, history, literature, and politics of Latin America. Three periods a week. Three credits each semester.

LINGUISTICS/Assistant Professor A. Stephen Disraeli, Adviser.

The linguistics program aims to give students, regardless of their special interest, an understanding of the fundamental structure of language (general linguistics) and, in conjunction with other disciplines, to explore the acquisition of language

and the function of language in cultures and societies (psycholinguistics, anthropological linguistics, and sociolinguistics, respectively).

The English Language (English 305) and a course in psycholinguistics (offered alternate years in the Psychology Department under *Selected Topics in Psychology*,) are supportive courses. The latter course includes the following problems: How adults understand and produce sentences; how children acquire language and the biological basis of language.

Linguistics 101—Trends in Modern Linguistics. (S)

Survey of issues in theoretical, anthropological, psycho- and sociolinguistics. Three credits.

Linguistics 201—Anthropological Linguistics. (S)

The significance of language for human social life in a variety of cultures. Cultural variations in non-verbal communication such as body language. The influence of language on a people's world view. Three credits.

Linguistics 204—Sociolinguistics. (S)

The effect of social structure on linguistic choices. The language problems of the poverty child. Linguistic nationalism in multilingual societies. Three credits.

Linguistics 301—Field Methods in Linguistics. (S)

Linguistic theory and practice as a tool in anthropological and sociological field work. The problems and techniques of obtaining and evaluating data. How to gain rapport with people from other cultures when doing field work. Prerequisite: a previous linguistics course or permission of the instructor. Three credits.

MATHEMATICS/ Professor Hobart C. Carter, Chairman; Associate Professor A.M. Harris; Assistant Professors Gardner, L. Jones, Lindsey, Pierce, Sarchet, Tyree.

Students who undertake a major program in mathematics are required to earn thirty-six credits in mathematics and related subjects.

Twenty-four must be selected from courses in mathematics more advanced than Mathematics 221 and must include

Mathematics 302 and Mathematics 342. At least twelve must be earned in the following fields:

Mathematics—Any 300 or 400 course undertaken in addition to the twenty-four credit requirement.

Physics—Any course in physics.

Astronomy—Any course in astronomy.

Philosophy—Philosophy 109, 244, 306, 344.

Chemistry—Chemistry 393, 394.

Economics—Economics 361, 362, 371, 372.

Statistics 300, 301.

Mathematics 111—*Mathematical Analysis I.* (N/M)

Mathematical foundation and analytic geometry of the plane. Three periods a week. Three credits.

Mathematics 121—*Calculus I.* (N/M)

Calculus of algebraic functions with applications. Three periods a week. Three credits.

Mathematics 131—*Mathematical Analysis II.* (N/M)

Logic, number bases, probability, matrix applications, analytic geometry of space and a class-selected topic. Three periods a week. Three credits.

Mathematics 221—*Calculus II.* (N/M)

Advanced topics of calculus of algebraic functions and calculus of transcendental functions with applications. Three periods a week. Three credits.

Mathematics 231—*Calculus III.* (N/M)

Solid analytics, multivariate calculus and infinite series. Three periods a week. Three credits.

Mathematics 301, 302—*Higher Algebra.* (N/M)

Mappings, groups, rings, fields, vector spaces and linear transformations. Three periods a week. Three credits each semester.

Mathematics 312—*Differential Equations.* (N/M)

Ordinary differential equations with applications and an introduction to partial differential equations. Three periods a week. Three credits.

Mathematics 341, 342—*Advanced Calculus.* (N/M)

Prerequisite: Mathematics 231. Three periods a week. Three credits each semester.

French

Students who undertake a major program in French must take forty credits in French and related subjects. These credits are to be arranged by the student, the adviser, and the department.

Each French major should reside for one session in the French House.

French 101-102—*Beginning French.* (D/E)

For students who enter college with fewer than two units in high school French. Five periods a week, two of which will be laboratory periods. Six credits.

French 111, 112—*Fundamentals of French Pronunciation and Conversation.* (D/E)

Prerequisite: French 101-102 or two units of high school French. A basic or remedial course for serious students who lack the proficiency in French which would make them eligible for French 161-162. Two periods a week. One credit each semester.

French 151-152—*Intermediate French.* (D/E)

Prerequisite: French 101-102 or two to three units in high school French. Grammar review; varied reading; oral work with emphasis on the language laboratory. Three periods a week. Six credits.

French 161, 162—*French Conversation.* (D/E)

Prerequisite: Sophomore standing or proof of proficiency at this level. A course offered especially for majors or those planning to live in the French House, but open to others with permission of the instructor. Two periods a week. One credit each semester.

PREREQUISITES FOR 200-LEVEL COURSES ARE SATISFACTORY COMPLETION OF FRENCH 151-152, AND/OR PROOF OF PROFICIENCY AT THIS LEVEL.

French 201—*Studies in Language I.* (D/E)

Grammar and composition. Recommended for majors but does not count toward a French major. Open to students who have completed four years of high school French or French 151-152. Three periods a week. Three credits.

French 211, 212—*Intermediate French Conversation.* (D/E)

Discussion of timely topics in French. Two periods a week. One credit each semester.

French 213—*French Phonetics.*

(D/E)

Introduction to intonation and phonetics, using the international phonetic symbols as applied to the French language. Recommended especially for prospective teachers of French. Two periods a week. One credit.

French 221-222—*Introduction to French Literature.*

(L)

Selected readings from all periods of French literature. Three periods a week. Six credits.

French 223—*L'Homme Revolte in French Literature.*

(L)

French individualism as reflected in the literature. Three periods a week. Three credits.

French 251—*The Comedy of Moliere.*

(L)

Comedies selected to show the various aspects of Moliere's dramatic production. Three periods a week. Three credits.

French 252—*French Tragedy of the Seventeenth Century.*

(L)

Principal works of Corneille and Racine. Three periods a week. Three credits.

French 261—*Voltaire, Rousseau and Revolution.*

(L)

Revolutionary aspects in the writings of Voltaire and Rousseau. Three periods a week. Three credits.

French 271—*The Novel of the Nineteenth Century.*

(L)

Selected works from the Romantic, Realistic, and Naturalistic Schools. Three periods a week. Three credits.

French 272—*The Romantic Theatre and Poetry.*

(L)

Selected works from the major representatives of the Romantic school. Three periods a week. Three credits.

French 281—*The Novel of the Twentieth Century.*

(L)

Novels of major writers from Proust to Camus. Three periods a week. Three credits.

French 282—*Le Nouveau Roman.*

(L)

Selected novels since 1955. Three periods a week. Three credits.

French 283—*The Modern French Theater and the Theater of the Absurd.*

(L)

Works of 20th Century French playwrights such as Claudel, Giraudoux, Anouilh, and Ionesco. Three periods a week. Three credits.

French 284—*Existentialism*.

(L)

Essays, plays and novels of the major exponents of the Existentialist movement. Three periods a week. Three credits.

THE PREREQUISITE FOR 300 AND 400 LEVEL COURSES IS SATISFACTORY COMPLETION OF A 200-LEVEL CLASS SUCH AS FRENCH 221, 222, OR PERMISSION OF THE INSTRUCTOR.

French 301, 302—*Studies in Language II*.

(D/E)

Advanced grammar and composition. Translation. Required of majors. Others by permission of the instructor. Three periods. Three credits each semester.

French 311, 312—*French Conversation*.

(D/E)

For students capable of special fluency. Two periods a week. One credit each semester.

French 315, 316—*French Civilization*.

(S)

Prerequisite: French 151, 152 or four units of high school French. Geography, history, and the political background of France and the French people. Three periods a week. Three credits each semester.

French 321, 322—*Survey of French Literature*.

(L)

Open only to French majors and to certain other students who have demonstrated unusual ability in the language. Lectures, reports, and selections from representative writers. Three periods a week. Three credits each semester.

French 331—*Literature of the Middle Ages*.

(L)

Three periods a week. Three credits.

French 341—*Literature of the XVI Century*.

(L)

Three periods a week. Three credits.

French 351—*Drama of the XVII Century*.

(L)

Three periods a week. Three credits.

French 352—*Non-dramatic Literature of the XVII Century*.

(L)

Three periods a week. Three credits.

French 361—*The Literature of Eighteenth Century Philosophers*.

(L)

Three periods a week. Three credits.

French 362—*The Theatre and the Novel of the Eighteenth Century*.

(L)

Three periods a week. Three credits.

French 371—*The Novel of the Nineteenth Century*.

(L)

Three periods a week. Three credits.

French 373—*Nineteenth Century Romanticism in the Theatre and in Poetry.* (L)

Three periods a week. Three credits.

French 374—*Nineteenth Century Post-Romantic Theatre and Poetry (The Parnasse and Symbolism).* (L)

Three periods a week. Three credits.

French 381—*The Novel of the Twentieth Century.* (L)

Three periods a week. Three credits.

French 382—*Twentieth Century Poetry.* (L)

Three periods a week. Three credits.

French 383—*Twentieth Century Theatre.* (L)

Three periods a week. Three credits.

French 395, 396—*French Literature in Translation.* (L)

Great French masterpieces taught in English. Not to be credited toward a French major, but may count as meeting area requirements in literature, or as an elective. Three periods a week. Three credits each semester.

French 411, 412—*French Conversation.* (D/E)

Required of majors unless excused after examination by the department. Two periods a week. One credit each semester.

French 430's through 480's— (L)

Senior Seminars in the literature of successive centuries, the 430's on the the Middle Ages, the 440's on the XVI Century, the 450's on the XVII Century, etc., through the 480's on the XX Century.

French 491, 492—*Independent Study.*

Individual study under the direction of a member of the staff. Three credits a semester for not more than two semesters. (By permission of the department.)

French for Graduate Reading Examination.

An intensive non-credit course in reading French offered to individuals working on graduate degrees. It is designed to prepare the individual for foreign language examinations given to fulfill requirements toward a Masters or Ph.D. degree.

German

Students who choose a major program in German must take forty credits in German and related subjects. These credits are to be arranged by the student, the adviser, and the department.

German 101-102—*Beginning German.* (D/E)

For students offering fewer than two units in high school German. Fundamentals of grammar, composition, conversation, and reading. Five periods a week, two of which are laboratory periods. Six credits.

German 111, 112—*German Conversation.* (D/E)

Prerequisite: sophomore standing or proof of proficiency at this level. Two periods a week. One credit each semester.

German 151-152—*Intermediate German.* (D/E)

Prerequisite: German 101-102 or two to three units of high school German. Grammar review and conversation; reading of modern German texts. Three periods a week. Six credits.

German 221, 222—*Introduction to German Literature and Civilization.* (L)

Prerequisite: German 151-152 or four units of high school German. A study of selected texts of the literary and cultural background of the German people. Three periods a week. Three credits each semester.

THE PREREQUISITE FOR 300 AND 400 LEVEL COURSES IS SATISFACTORY COMPLETION OF GERMAN 221, 222, OR PERMISSION OF THE INSTRUCTOR.

German 301, 302—*Advanced Grammar and Composition.* (D/E)

Required of majors. Three periods a week. Three credits each semester.

German 321, 322—*German Literature from the Earliest Times Through the Eighteenth Century.* (L)

Emphasis on the epic of the Middle Ages, the literature of the Baroque Period and the Age of Enlightenment. Three periods a week. Three credits each semester.

German 371, 372—*German Classicism and Romanticism.* (L)

Fail semester: literature of the classic movement; spring semester: literature of the romantic school. Three periods a week. Three credits each semester.

German 373, 374—*Nineteenth Century Literature.* (L)

Lectures, readings, and reports. Three periods a week. Three credits each semester.

German 381, 382—*Modern German Literature.* (L)

A study of representative works from 1890 to the present. Three periods a week. Three credits each semester.

German 395, 396—*Goethe's Faust in Translation.* (L)

Taught in English. Not accepted as foreign language requirement. toward degree. Two hours a week. Two credits each semester.

German 411, 412—*Advanced German Conversation.* (D/E)

Required of majors unless excused after examination by the department. Two periods a week. One credit each semester.

German 471, 472—*Goethe's "Faust."* (L)

A thorough study and interpretation of this great masterpiece and its background. Three periods a week. Three credits each semester.

German 481, 482—*Readings in German.* (L)

Open to seniors by permission of the department. One period a week. One credit each semester.

German 491, 492—*Independent Study.*

Individual study under the direction of a member of the staff. Three credits a semester for not more than two semesters. (By permission of the department.)

German for Graduate Reading Examinations.

An intensive non-credit course in reading German offered to individuals working on graduate degrees. It is designed to prepare the individual for foreign language examinations given to fulfill requirements toward a Masters or Ph.D. degree.

Italian

Italian 101-102—*Beginning Italian.* (D/E)

For students who enter college with fewer than two units of high school Italian. Fundamentals of grammar and pronunciation; reading and conversation. Five periods a week, two in the laboratory. Six credits.

Italian 151-152—*Intermediate Italian.* (D/E)

Prerequisite: Italian 101-102 or two units of high school Italian. A review of grammatical principles; readings of selected texts, collateral reading. Three periods a week. Six credits.

Italian 201—*Studies in Language I.* (D/E)

Grammar and composition. Open to students who have completed four years of high school Italian or Italian 151-152. Three periods a week. One semester. Three credits.

Italian 211, 212—*Italian Conversation.* (D/E)

Prerequisite: Italian 151-152 or two years of high school Italian. Two periods a week. One credit each semester.

Italian 221, 222—*Modern Italian Literature.* (L)

Prerequisite: Italian 151-152 or four units of high school Italian. A study based on Italian texts of the late 19th and 20th centuries. Three periods a week. Three credits each semester.

Italian 271, 272—*Nineteenth Century Literature.* (L)

Readings from Italian literature with emphasis on the novel and drama of the 19th century. Three periods a week. Three credits each semester.

Italian 295, 296—*Dante and the Great Masterpieces of the Italian Renaissance in Translation.* (L)

A study of Dante's Divine Comedy in the fall semester and other great literary Renaissance masterpieces in the spring. This course will be given in English. Three periods a week. Three credits each semester.

Italian 321, 322—*Literature and Civilization.* (L)

A study based on Italian texts of the literary and cultural history of the Italian people. Three periods a week. Three credits each semester.

Italian 431, 432+—*Dante.* (L)

A study of Dante's Divine Comedy and the early Italian poets. Three periods a week. Three credits each semester.

Italian 491, 492—*Independent Study.*

Individual study under the direction of a member of the staff. Three credits a semester for not more than two semesters. (By permission of the department.)

Japanese

Japanese 101-102—*Beginning Japanese.* (D/E)

For students beginning the study of Japanese. Five periods a week, one of which is scheduled to the laboratory. Six credits.

Japanese 151-152—*Intermediate Japanese.* (D/E)

Prerequisite: Japanese 101-102. Four periods a week. Six credits.

Portuguese

Portuguese 101-102—*Beginning Portuguese.* (D/E)

For students who enter college with fewer than two units in high school Portuguese. Grammar and readings; conversation based on the Brazilian pronunciation. Five periods a week, two in the laboratory. Six credits. Not offered in 1972-73.

Portuguese 151-152—*Intermediate Portuguese.* (D/E)

Prerequisite: Portuguese 101-102 or two to three units in high school Portuguese. A brief review of grammar; reading and discussion of modern Brazilian literature, conversation. Three periods a week. Six credits.

Portuguese 491, 492—*Independent Study.*

Individual study under the direction of a member of the staff. Three credits a semester for not more than two semesters. (By permission of the department.)

Russian

Russian 101-102—*Beginning Russian.* (D/E)

For students who enter college with fewer than two units in Russian. The basic vocabulary and fundamental grammatical structure of the language; practice in conversation and reading of easy Russian texts. Five periods a week, two of them in the laboratory. Six credits.

Russian 151-152—*Intermediate Russian.* (D/E)

Prerequisite: Russian 101-102 or equivalent. Thorough review of grammar; reading of selected texts from modern prose writers; conversation of topics of current interest. Three periods a week. Six credits.

Russian 211, 212—*Russian Conversation.* (D/E)

Prerequisite: Russian 101-102 or equivalent. Two periods a week. One credit each semester. (On sufficient demand only.)

Russian 221, 222—*Introduction to Russian Literature and Civilization. (Selected Readings in Russian).* (L)

Prerequisite: Russian 151-152 or equivalent. Readings and discussion of excerpts and short works with emphasis on nineteenth century literary masters and their times. Three periods a week. Three credits each semester.

Russian 381, 382—*Soviet Russian Literature. (Selected Readings in Russian).* (L)

Prerequisite: Russian 151, 152 or equivalent. Reading and analysis of representative works by Soviet Russian writers such as Gor'kil,

Sholokhov, Maiakosvkii, Leonov, Fadeev, Pasternak, and others. Three periods a week. Three credits each semester.

Russian 395—*Russian Literature in English Translation—XIX Century.* (L)

No knowledge of Russian required. Will not fulfill the language requirement. Core course for Russian Studies major. Readings, discussions, and lectures with emphasis on nineteenth century writers—Pushkin, Lermontov, Gogol', Turgenev, Dostoevskii, Tolstoi, and others. Three periods a week. Three credits.

Russian 491, 492—*Independent Study.*

Individual study under the direction of a member of the staff. Three credits a semester for not more than two semesters. (By permission of the department.)

Spanish

Students who choose a major program in Spanish must take forty credits in Spanish and related subjects. These credits are to be arranged by the student, adviser, and the department.

Spanish 101-102—*Beginning Spanish.* (D)/E

For students who enter college with fewer than two units of high school Spanish. Five hours a week, two of them in the laboratory. Six credits.

Spanish 151-152—*Intermediate Spanish.* (D/E)

Prerequisite: Spanish 101-102 or two or three units of high school Spanish. Conversation and composition; varied readings; review of grammatical principles; practice in the language laboratory. Three periods a week. Six credits.

PREREQUISITES FOR 200-LEVEL COURSES ARE SATISFACTORY COMPLETION OF SPANISH 151-152 AND/OR PROOF OF PROFICIENCY AT THIS LEVEL.

Spanish 201—*Studies in Language I.* (D/E)

Grammar and composition. Recommended for majors. Open to students who have completed four years of high school Spanish or Spanish 151-152. Three periods a week. Three credits.

Spanish 211, 212—*Spanish Conversation.* (D/E)

A course offered especially for majors or those living in the Spanish

House, but open to others with the permission of the instructor. Two periods a week. One credit each semester.

Spanish 215—*Spanish Civilization*. (S)

A survey of Spanish history and institutions, with attention devoted to ethnic, political, and artistic aspects. Three periods a week. Three credits.

Spanish American 216—*Spanish American Civilization*. (L)

A survey of Spanish American history and institutions. Three periods a week. Three credits.

Spanish 221, 222—*Introduction to Spanish Literature*. (L)

Readings from the work of great writers of various periods. Three periods a week. Three credits each semester.

Spanish American 223, 224—*Introduction to Spanish-American Literature*. (L)

Selected readings from the works of great writers of various periods. Three periods a week. Three credits each semester.

Spanish 225—*Poetry of Spain*. (L)

Three periods a week. Three credits.

Spanish American 226—*The Poetry of Spanish America*. (L)

Three periods a week. Three credits.

Spanish American 227—*The Literature of Mexico and Central America*. (L)

Three periods a week. Three credits.

Spanish American 228—*The Fiction of Spanish America*. (L)

Three periods a week. Three credits.

Spanish American 229—*The Essay of Spanish America*. (L)

Three periods a week. Three credits.

Spanish 251—*The Novelas Ejemplares and Entremeses of Cervantes*. (L)

Three periods a week. Three credits.

Spanish 252—*The Drama of the Golden Age*. (L)

Three periods a week. Three credits.

Spanish 271—*Drama of Spain after 1850*. (L)

Three periods a week. Three credits.

Spanish 272—*Spanish Fiction of the Nineteenth Century.* (L)
Three periods a week. Three credits.

Spanish 282—*The Generation of 1898 Spain.* (L)
Three periods a week. Three credits.

THE PREREQUISITE FOR 300 AND 400 LEVEL COURSES IS THE SATISFACTORY COMPLETION OF SIX HOURS OF 200 LEVEL LITERATURE CLASSES AND/OR PERMISSION OF THE INSTRUCTOR.

Spanish 301, 302—*Studies in Language II.* (D/E)
Advanced composition and grammar. Required of majors. Three periods a week. Three credits each semester.

Spanish 321, 322—*Survey of Spanish Literature.* (L)
Open to Spanish majors and to certain other students who have demonstrated unusual ability in the language. Lectures, reports, and selections from representative writers. Three periods a week. Three credits each semester.

Spanish American 323—*Spanish American Literature of the Seventeenth and Eighteenth Centuries.* (L)
Three periods a week. Three credits.

Spanish 331—*Literature of the Middle Ages, and Renaissance.* (L)
Three periods a week. Three credits.

Spanish American 341—*Spanish American Literature of the Period of the Conquest.* (L)
Three periods a week. Three credits.

Spanish 351, 352—*Drama and Poetry of the Golden Age in Spain.* (L)
Three periods a week. Three credits each semester.

Spanish 362—*Spanish Literature of the XVIII Century.* (L)
Three periods a week. Three credits.

Spanish 371—*Nineteenth Century Romanticism.* (L)
Three periods a week. Three credits.

Spanish 372—*Post-Romantic Drama and Poetry.* (L)
Three periods a week. Three credits.

Spanish 373, 374—*The Novel of the Nineteenth Century.* (L)
Three periods a week. Three credits each semester.

Spanish American 375, 376—*Nineteenth Century Literature in Spanish America.* (L)

Three credits a week. Three credits each semester.

Spanish 395, 396—*Spanish Literature in Translation.* (L)

Great works in English translation taught in English. Not to be credited toward a Spanish major, but may count as meeting area requirement in literature or as elective. Three periods a week. Three credits each semester.

Spanish American 397, 398—*Spanish American Literature in Translation.* (L)

Great works in English translation taught in English. Not to be credited toward a Spanish major, but counts toward a Latin American Studies major, and meets area requirement in literature. Three periods a week. Three credits each semester.

Spanish 411, 412—*Advanced Conversation.* (D/E)

Required of majors unless excused after examination by the department. Two periods a week. One credit each semester.

Spanish 421, 422—*Readings in Spanish.* (L)

Open to seniors with permission of the department. Three periods a week. Three credits each semester.

Spanish 451, 452—*The Novel of the Golden Age in Spain.* (L)

Three periods a week. Three credits each semester.

Spanish 481—*The Drama of the Twentieth Century.*

Three periods a week. Three credits.

Spanish 482—*Poetry of the Twentieth Century.* (L)

Three periods a week. Three credits.

Spanish 483, 484—*Twentieth Century Prose.* (L)

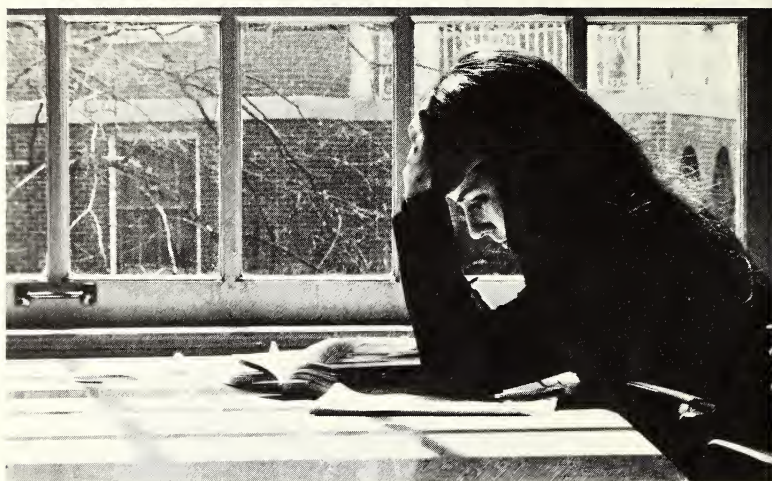
Three periods a week. Three credits each semester.

Spanish American 485, 486—*Twentieth Century Literature of Spanish America.* (L)

Three periods a week. Three credits each semester.

Spanish 491, 492—*Independent Study.*

Individual study under the direction of a member of the staff. Three credits each semester for not more than two semesters. (By permission of the department.)



MUSIC/*Professor* George E. Luntz, Chairman; *Professor* Bulley; *Associate Professors* Baker, Chauncey, Edson, Hamer, L. Houston, Lemoine; *Instructors* Chalifoux, Sabine.

The Department of Music offers a major program in music as well as courses that can be chosen as electives by students whose primary interests are in other fields.

The Department of Music is a member of the National Association of Schools of Music.

A major program requires that a student pass a preliminary audition and basic test, earn a minimum of thirty-six credits in music, demonstrate functional proficiency in piano, and acquire the ability to perform well in some area of applied music.* Twenty-four credits must be taken in the following courses:

Music 181-182, Harmony and Ear Training . . . 6 credits

Music 281-282, Advanced Harmony and Ear

Training 6 credits

Music 305, 306, History of Music 4 credits

Music 391-392, Counterpoint 4 credits

Music 491-492, Form and Analysis 4 credits

Students majoring in music should take Music 181-182 in the freshman year.

*No Fees for Applied Music.

Twelve additional credits are to be taken in courses selected from the following:

Music 291, History of Musical Instruments
Music 315, Twentieth Century Music
Music 321, 322, Conducting
Music 395, 396, Orchestration
Music 175, 176, 275, 276, Band and Orchestra Instruments
Music 405, 406, Choral Music
Music 407, 408, Music and English Literature
Music 415, 416, Opera
Music 421, 422, Studies in Musical Style
Music 493, 494, Independent Study
Music 495, 496, Composition
Applied Music

It is also possible for students to take courses in music in addition to those required by the major program. These courses may be considered as electives in fulfilling degree requirements. However, each student majoring in music should plan her work in consultation with a departmental adviser.

The following courses are suggested as valuable electives for the student majoring in music:

Art 114, 115, Art History
Dramatic Arts 211, Survey of World Theatre
Philosophy 212, Aesthetics

Music majors wishing to qualify for a Virginia teaching certificate should consult the chairman of the Music Department and the chairman of the Education Department to make certain that they take all the necessary courses. In addition, they should plan for eighteen semester hours in performance instruction. This includes courses in conducting, instrumental classes, participation in chorus, band, or other regular ensemble groups, and individual instruction in applied music.

Theory of Music

Music 181-182—*Harmony and Ear Training*. (H)

Fundamentals of music chord-structure and progressions. Figured bass and given melodies, dominant sevenths. Original work. Melodic,

rhythmic, and harmonic dictation, sight-singing and keyboard harmony. Five periods a week. Six credits.

Music 281-282—*Advanced Harmony and Ear Training.* (H)

Prerequisite: Music 181-182. Advanced harmony and its use in traditional musical styles. Modulation, complete dominant harmony, altered chords, and enharmonic relationships. Harmonic analysis. Keyboard and ear training skills. Five periods a week. Six credits.

Music 285, 286+—*Instrumental Sight Reading.* (H)

(Enrollment by permission of instructor.) Class designed to increase sight-reading ability by means of both playing and following the printed score. Also a retainer course for those who wish to keep up their instrumental technique, whether they are currently studying or not. Two periods a week. No credit.

Music 301, 302; 311, 312+—*School Music.* (D/E)

Essentials of school music materials and procedures involved in teaching songs, rhythmic and instrumental work, and listening. Coordination with other subjects. Course 301-302 (Two hours a week. One credit each semester.) is for non-music majors expecting to teach in the elementary grades. Course 311, 312 (Three hours a week. Three credits each semester.) is for music majors who expect to teach music in elementary or secondary schools.

Music 321, 322+—*Conducting.* (H)

Principles and techniques of conducting, including the study of materials, arranging, and program planning. First semester, choral conducting; second semester, instrumental conducting. Two periods a week. Two credits each semester.

Music 391-392—*Counterpoint.* (H)

Prerequisite or co-requisite: Music 281-282. Elementary contrapuntal techniques, including double counterpoint at the octave. Two periods a week. Four credits.

Music 395, 396+—*Orchestration.* (H)

Techniques of instrumental scoring considered historically and creatively. Two periods a week. Two credits each semester.

Music 491-492—*Form and Analysis.* (H)

Prerequisite: Music 281-282. Structural and harmonic analysis of both large and small forms of composition. Two periods a week. Four credits.

Music 495, 496+—*Composition.* (H)

Prerequisite: Music 281-282. Creative work in smaller forms. Correl-

ative study of traditional and contemporary compositional practices. Two periods a week. Two credits each semester.

History and Literature of Music

Music 111, 112+—*Survey of Music.* (H)

General survey of music and its relationship to general culture and history. Three periods a week. Three credits each semester.

Music 291—*The History of Musical Instruments.* (H)

A study of the evolution of musical instruments in western culture from antiquity through the present day with emphasis on performance practices of the times and their relationships to the symphony orchestra. Two periods per week. Two credits.

Music 305, 306+—*History of Music.* (H)

Study of the development of music from ancient to modern times with special correlation of historical and cultural trends. Two periods a week. Two credits each semester.

Music 315—*Twentieth Century Music.* (H)

Prerequisite: Music 111-112 or Music 305, 306 or special permission of the instructor. The study of twentieth century practices in musical composition and their relationships to the historical developments in music. Two periods a week. Two credits. Offered each semester.

Music 405, 406+—*Choral Music.* (H)

Study of sacred and secular choral literature, including both the vocal and interpretative aspects. Consideration of textual as well as musical content. Two periods a week. Two credits each semester. (Offered in alternate years. Offered in 1972-73.)

Music 407, 408+—*Music and English Literature.* (H)

A study of musical compositions inspired by English literature from Chaucer to the present day. (A theoretical and practical background of music is not essential for this course.) Two periods a week. Two credits each semester. (Offered in alternate years. Offered in 1972-73.)

Music 415, 416+—*Opera.* (H)

Literary and musical development of the opera; staging and scenic devices. Comparison of operatic styles through study and listening. Two periods a week. Two credits each semester. (Offered in alternate years. Not offered in 1972-73.)

Music 421, 422+—*Studies in Musical Style.* (H)

A study of style related to period, nationality, and individual com-

posers. Two periods a week. Two credits each semester. (Offered in alternate years. Not offered in 1972-73.)

Music 493, 494+—*Independent Study*. (H)

Individual study under the direction of a member of the music department faculty. From two to six credits. (By permission of the department.)

Band and Orchestra Instruments

Music 175, 176—*Beginning String Instruments*. (H)

Class study of playing techniques on string instruments, including reference to their historical development and literature. Two periods a week. One credit each semester.

Music 275—*Beginning Woodwind and Percussion Instruments*. (H)

Class study of playing techniques on woodwind instruments and on snare drum, including reference to their historical development and literature. Two periods a week, first semester. One credit.

Music 276—*Beginning Brass and Percussion Instruments*. (H)

Class study of playing techniques on brass instruments and on percussion instruments, including reference to their historical development and literature. Two periods a week, second semester. One credit.

Band, Chorus, and String Ensemble

The College maintains a concert band, chorus, and string ensemble. Any student may, with the permission of the conductor, participate in the band, chorus, or string ensemble, but will be allowed a combined maximum of six credits in ensemble participation. However, band, chorus, or string ensemble may be taken without credit. Each organization has two rehearsals a week and gives one credit each semester.

Individual Instruction in Music

Individual lessons in voice, piano, organ, violoncello, harp, and woodwinds are offered by the department.

Credit is allowed for a maximum of twelve semester hours in individual instruction.

For study of above named subjects one credit is allowed for one half-hour lesson a week plus one hour of practice daily; two credits are allowed for one one-hour lesson or two half-hour lessons a week plus two hours of practice daily.

Instructors in individual lessons are: Mrs. Anne Hamer, violoncello and piano; Mrs. Yvonne Sabine, voice; Mrs. Jean Edson, organ; Mr. Levin Houston, piano; Mr. Bernard Lemoine, piano; Mr. James Baker, woodwinds; Miss Jeanne Chalifoux, harp.

PHILOSOPHY/ *Professor* George M. Van Sant, Chairman*; *Professor* Leidecker Acting Chairman; *Assistant Professors* Bonyhard, Snyder.

Students who choose a major program in philosophy complete at least twenty-four credits in philosophy in addition to any 100 level course taken to meet basic degree requirements. Students also complete twelve credits in related subjects. These subjects are to be selected in consultation with the student's adviser. Any 300 or 400 courses in appropriate departments are acceptable (exceptions are Classics and Religion department courses numbered 201 and 202). A list of courses recommended as related fields is available from the department.

Majors in philosophy are expected to include at least four of the five following courses comprising the history of philosophy: Philosophy 321, 322, 371, 372, 373.

A program of Independent Study (tutorial) is offered to highly qualified students upon approval by the department. This may be specialization in the work of a single philosopher or a specific philosophical problem.

Philosophy 105—Introduction to Philosophy: Morals and Society. (H)

An introductory survey of both classical and modern ethical systems. The importance of critical thinking about moral and social issues is stressed. Three periods a week. Three credits.

Philosophy 107—Introduction to Philosophy: Knowledge and Reality. (H)

An introductory survey of philosophical positions concerning man's

*On leave of absence, 1971-72.

knowledge and the different metaphysical views which have been taken of the nature of the universe and man's position in the universe. Three periods a week. Three credits.

Philosophy 109—*Introduction to Philosophy: Language and Logic.*(H)

The elementary principles of valid reasoning to introduce the arts and sciences student to logic and language, elementary symbolic logic and simple deductive system. Three periods a week. Three credits.

Philosophy 211—*Ethical Studies.*(H)

A study of the status and justification of moral judgments, the nature of disagreements in moral issues, and contemporary examinations of the language used in ethical theories. Three periods a week. Three credits.

Philosophy 212—*Aesthetics.*(H)

An examination of a variety of attempts to validate norms of taste and of criticism. Attention is given to problems specific to particular art forms as well as to the more general theories about the nature of art, and of responses to it. Three periods a week. First semester. Three credits.

Philosophy 244—*Philosophy of Science.*(H)

A survey of modern philosophical writing about scientific presuppositions, about the methods and language of the scientists, and about the impact of science on other philosophical problems. Three periods a week. Three credits.

Philosophy 304—*American Philosophy.*(H)

A study of philosophical ideas in America from colonial times to their reorientation between World Wars I and II. Special emphasis is given to pragmatism. Three periods a week. Three credits.

Philosophy 306—*Symbolic Logic.*(H)

Theory of formal systems; applied criteria of consistency, completeness and decisional procedures. The development of quantification theory. Godel's proof, approaches to the justification of logic, and other topics in symbolic logic. Prerequisite: Philosophy 109 or completion of six hours in mathematics. Three periods a week. Three credits.

Philosophy 311—*Philosophies of India.*(H)

An approach to the germinal philosophic thoughts of the Vedas, Upanishads, and Bhagavad Gita, leading up to the classical philosophic systems of Sankhya, Yoga and Vedanta, with tangential treatment of Jainism, Tantra and Kashmir Shaivism. Three periods a week. First semester. Three credits.

Philosophy 312—*Philosophies of China and Japan.* (H)

A study principally of Taoism and Confucianism and of schools based on or in opposition to these, with emphasis on the idiosyncratic contributions of the Chinese language to thought, the impact of Buddhism, and the further development of concepts and systems in Japan. Three periods a week. Second semester. Three credits.

Philosophy 313—*The Philosophy of Buddhism.* (H)

A survey of the ethics of the Buddha, the Abhidhamma portion of the Buddhist canon, the main schools of the Theravada and Mahayana traditions with their principal exponents, and the origin and meaning of Zen. Three periods a week. Second semester. Three credits. (Offered in alternate years. Not offered in 1972-73.)

Philosophy 321—*Greek Philosophy.* (H)

A study primarily of selected works of Plato and Aristotle with special attention given to the origin and development of epistemological and metaphysical problems. Three periods a week. First semester. Three credits.

Philosophy 322—*Medieval Philosophy.* (H)

A survey of scholastic philosophy. Special consideration is given to the works of Augustine, Thomas Aquinas and William of Ockham. Three periods a week. Second semester. Three credits.

Philosophy 331—*Philosophies of History.* (H)

A survey of philosophical attempts to construct theories concerning the patterns of history. Two periods a week. Two credits.

Philosophy 343—*Existentialism and Phenomenology.* (H)

A study of recent philosophical developments in the continental European tradition. Includes such writers as Kierkegaard, Nietzsche, Heidegger, Marcel, Merleau-Ponty, Jaspers, and Sartre. Three periods a week. Three credits.

Philosophy 344—*History of Scientific Thought.* (H)

A study of the classics in the development of scientific thinking. Special attention is given to the significant discoveries, the methods and the presuppositions which have characterized the different phases of the development of science. Prerequisite: Eight semester hours of laboratory science. Three periods a week. Second semester. Three credits. (Offered in alternate years. Offered in 1972-73.)

Philosophy 352—*Philosophy East and West.* (H)

A study of basic concepts in ethics, aesthetics, logic and metaphysics embodied in the philosophical, religious and literary patterns of various Oriental cultures and a comparison of them with similar patterns in Western civilization with the objective of tracing parallels and influences and bringing to light differences as well as identities with implications for developing contemporary and global perspectives. Three periods a week. First semester. Three credits. (Offered in alternate years. Not offered in 1972-73.)

Philosophy 361—*Metaphysics.* (H)

A study of problems such as being, reality, space, time, causality, chance, freedom, and identity that are basic to an intellectual comprehension of the universe and the processes of mind and nature. Three periods a week. Three credits. (Offered in alternate years. Offered in 1972-73.)

Philosophy 371—*Seventeenth and Eighteenth Century Philosophy.* (H)

A survey of major thinkers from Descartes to Hume, with particular emphasis on the relation and contributions of these thinkers to contemporary thought. Three periods a week. Three credits.

Philosophy 372—*Kant.* (H)

A systematic study of selected major works of Immanuel Kant. The impact of Kant's thought on subsequent philosophical views is emphasized. Three periods a week. Three credits.

Philosophy 373—*Nineteenth and Twentieth Century Philosophy.* (H)

A critical consideration of major thinkers and movements from Hegel to the present. Three periods a week. Three credits.

Philosophy 420—*Contemporary Epistemology.* (H)

An examination of contemporary approaches to and problems about the nature of knowledge. Topics will include perception, meaning, the analytic-synthetic distinction, ontological commitment, etc. Three periods a week. Three credits.

Philosophy 421—*Symbolism.* (H)

A course dealing with the philosophic basis of symbol formation as a universal category. Origin, function and value of symbol and metaphor are traced in diverse cultures, from primitive to Oriental and Western, and as many fields as possible from meta-psychology, religious iconography, myth construction and art to the humanistic disciplines, literature and system building in metaphysics. Three periods a week. First semester. Three credits. (Offered in alternate years. Offered in 1972-73.)

Philosophy 490—*Readings in Philosophy*. (H)

Open to all philosophy majors and otherwise qualified students of junior and senior status who desire to become more familiar with the philosophical literature in a field previously selected by the philosophy department after consultation with the students. The emphasis is upon intensive reading, with group discussion of the selections read. Three periods a week. Three credits.

Philosophy 491, 492—*Independent Study*. (H)

Tutorial under the direction of a member of the staff. Three to six credits (by permission of the department).

PHYSICS/Associate Professor Bulent I. Atalay, Chairman; Associate Professors Edson, Nikolic; Instructor Pitts.

A major program in physics requires twenty-four credits in physics beyond the general physics course, including Physics 251-252 and 391-392. Six credits must be in Mathematics 121, 221, or 231.

Physics 101, 102—*General Physics (Non-Scientific)*. (N/M)

An introductory course in general physics stressing conceptual rather than mathematical aspects. Three single and one double period a week. Four credits each semester.

Physics 151, 152—*General Physics (Scientific)*. (N/M)

Corequisite: Math 221 or equivalent. Three periods and one double period a week. Four credits each semester.

Physics 153, 154—*Physics Problems*. (N/M)

Recitation section for 151-152. One period a week. One credit each semester.

Physics 211—*Modern Physics I: Atomic Physics*. (N/M)

Foundations of quantum mechanics, atoms with one electron, multi-electron atoms, molecules, solids. First semester. Four credits.

Physics 212—*Modern Physics II: Nuclear Physics*. (N/M)

Nuclear structure, static and dynamic properties; fundamental particles. Second semester. Four credits.

Physics 251—*Classical Mechanics I*. (N/M)

Prerequisite: Physics 102 or 152 or equivalent; Math 212. Kinematics

and dynamics of a mass particle, conservation laws, central forces, generalized coordinates, Lagrange and Hamiltonian methods. First semester. Three credits.

Physics 252—Classical Mechanics II.

(N/M)

Prerequisite: Physics 251 or equivalent. Kinematics and dynamics of a rigid body, Hamilton's equations of motion, small oscillations, special theory of relativity. Three periods a week. Second semester.

Physics 391, 392—Electricity and Magnetism.

(N/M)

Prerequisite: Math 221, Physics 152 or 252. A survey of the foundations of electromagnetic theory; including electrostatics, electromagnetic properties of matter, electric current analysis, electromagnetic induction, Maxwell's equations, special theory of relativity and elementary circuit theory (AC and DC). Emphasis will be on lectures and limited laboratory demonstrations. Three periods a week. Three credits each semester.

Physics 393—Optics.

(N/M)

Prerequisite: Math 221. An introduction to the theory of physical optics (Huygen's wave model of light) as applied to interference, diffraction, polarization, phase and group velocity of light. Course includes both lectures and a laboratory based on the observation and interpretation of basic optical effects. Three periods and one lab per week. First semester. Three credits.

Physics 394—Electronics.

(N/M)

Prerequisite: Physics 391. An introduction to the theory and operation of electronic instruments and basic circuits. The course will include a discussion of electrical measurements and measuring instruments, and basic circuit analysis (power supplies, amplifiers, oscillators, switching and timing circuits) using both vacuum tubes and transistors. Limited lectures with emphasis on laboratory work. Second semester. Three credits.

Physics 401, 402—Methods of Theoretical Physics.

(N/M)

Prerequisite: Math 221. Vectors and matrices, coordinates, functions of a complex variable, differential equations and application, Fourier and Laplace transformations, special functions in physics, finite and infinite dimensional vector spaces, variational methods, tensors, group theory. Three periods each week. Three credits each semester.

Physics 451—Thermal Physics I: Thermodynamics.

(N/M)

Prerequisite: Math 221. Temperature, thermodynamic states and variables, the laws of thermodynamics, entropy, thermodynamic potentials, change of phase. Three periods a week. Three credits.

Physics 452—*Thermal Physics II: Statistical Mechanics.* (N/M)

Prerequisites: Same prerequisites as Physics 451, and Physics 201. Ensembles, microcanonical, canonical, and grandcanonical distributions, Maxwell-Boltzman, Bose-Einstein, and Fermi-Dirac distributions. Three periods a week. Three credits.

Physics 471, 472—*Quantum Mechanics.* (N/M)

Prerequisite: Physics 252. The concepts and formulation of quantum physics. Quantum mechanics, the Hamiltonian operator, and Schrodinger's equation, the harmonic oscillator, matrix formulation of quantum mechanics, angular momentum, scattering theory, perturbation theory, multi-particle systems. Three periods a week. Three credits each semester.

Physics 473—*Solid State Physics.* (N/M)

Crystal structure, diffraction, reciprocal lattice, elastic constants and elastic waves, phonons, thermal properties, Fermi gas model, energy bands, semi-conductor crystals, superconductivity. Three periods a week. First semester. Three credits.

Physics 476—*Nuclear Physics.* (N/M)

Prerequisite: Physics 202. Corequisite: Physics 471-472. Mass, size, and constitution of nuclei, nuclear models, two-body forces, scattering reactions, introduction to elementary particles. Three periods each week. Second semester. Three credits.

Physics 481, 482—*Physics Seminar.* (N/M)

Open to third and fourth year physics students only. One period per week. One credit each semester.

Physics 491, 492—*Independent Study.*

Open to Senior Physics Majors only. Three credits each semester.

Physics 493-494—*Honors in Physics.* (N/M)

Open to senior physics majors, who have satisfied the required grade-point average. Four credits each semester.

PSYCHOLOGY/ *Associate Professor Roy B. Weinstock, Chairman; Associate Professor M.A. Kelly; Assistant Professors Bresler, Butzine, Dobson, Koffman, MacEwen, Mery, Rabson, R.H. Smith.*

A major program in psychology requires thirty-six credits in psychology and related fields of study. Of the thirty-six required credits, twenty-four must be earned in courses in

psychology other than Psychology 201, 202. Statistics (either Psychology 261 or 262), History of Psychology, and one semester of Experimental Psychology or Physiological Psychology are required courses for all psychology majors who wish to receive the Bachelor of Arts degree. Twelve hours from affiliated areas of study or in advanced courses in psychology should be selected by the student in consultation with his or her departmental adviser.

Psychology 201 is a prerequisite for Psychology 202. Psychology 201 and Psychology 202 are prerequisites for all 300 level and 400 level Psychology courses.

Psychology 201, 202—*General Psychology*. (S)

Fundamental principles of human behavior; biological antecedents; motivation; perception; learning; individual differences; intelligence; and personality. Three credits each semester. Not open to freshmen.

Psychology 261—*Elementary Statistics*. (S)

A consideration of descriptive and inferential statistics. Such topics as central tendency, variability, probability, correlation techniques, chi-square, and t-tests will be covered. Quality point credit will not be allowed if Psychology 262 has already been, or is currently being, taken. Three credits.

Psychology 262—*Intermediate Statistics*. (S)

In-depth coverage of data analysis techniques and inferential tests, such as simple analysis of variance, curve fitting, and Bayesian statistics. This course is independent of Psychology 261, and is self-contained. Three credits.

Psychology 301—*Social Psychology*. (S)

The interrelationships between the individual and his social environment. Social influences upon motivation, perception, and behavior. The development of change of attitudes and opinions. Psychological analysis of small groups, social stratification, and mass phenomena. Three credits.

Psychology 307—*Computer Applications in the Social Sciences*. (S)

In addition to a consideration of elementary computer programming concepts, some of the following topics will be examined: Linear and curvilinear regression, automatic graphing, artificial intelligence, computer simulation of dynamic processes, factor analysis, and nonmetric multidimensional scaling. Three credits.

Psychology 311—*Abnormal Psychology*. (S)

Abnormalities of sensation, perception, memory, thinking, emotion, intelligence, motor activity, and personality; study of neurotic and psychotic syndromes. Three credits.

Psychology 331—*Developmental Psychology: The Infant and Child*. (S)

The study of human development from conception through childhood. Emotional, intellectual, social, and physical growth will be examined. Special attention will be focused on current research and theories. Three credits.

Psychology 332—*Developmental Psychology: The Adolescent and Adult*. (S)

The study of human development from adolescence through old age. There will be special emphasis on adolescent changes in personality, intellectual capacities, physical characteristics, and life goals. Current research and theories on adolescence, adult behavior, and aging will be considered. Three credits.

Psychology 342—*Psychology of Personality*. (S)

A study of personality structure, dynamics, development, and methods of research. Three credits.

Psychology 345—*Psychology of Learning*. (S)

An analysis of the theoretical issues and/or experimental bases of learning. Both human and infrahuman research will be considered. Three credits.

Psychology 362—*Psychology of Exceptional Children*. (S)

A study of exceptional children—physically handicapped; the mentally retarded; the mentally gifted; and the emotionally deviate. A survey of current attempts to provide programs to meet the specialized needs of such children. Three credits.

Psychology 371—*Experimental Psychology: Operant Conditioning*. (S)

Prerequisite: Psychology 261 or 262. An analysis of behavior utilizing the principles and procedures of operant conditioning. Laboratory work concentrated on the rat. Three lectures and one two-hour laboratory period a week. Four credits.

Psychology 372—*Experimental Psychology: Sensation and Perception*. (S)

Prerequisite: Psychology 261 or 262. Visual and auditory sensation will be examined using basic psychophysical methods. Fundamental perceptual phenomena will be analyzed. Scaling techniques will be presented. Three lectures and one two-hour laboratory period a week. Four credits.

Psychology 373—*Experimental Psychology: Human Learning.* (S)

Prerequisite: Psychology 261 or 262. An examination of method, data, and theory in human learning and memory research. Three lectures and one two-hour laboratory period a week. Four credits.

Psychology-Biology 392—*Behavior Genetics.* (S) (N/M)

Prerequisite: One year of biology and one year of psychology. The relationship between heredity and behavior of organisms including man; an examination of the relations between mechanisms of genetic transmission and gene action, population structure and evolution, and individual behavior differences. Three credits.

Psychology 401—*Psychological Tests and Measurements.* (S)

Prerequisite: Psychology 261 or 262. Theory of test construction; development, interpretation, and uses of tests of general and special abilities. Laboratory work illustrates the problems associated with testing and techniques of handling data. Three lectures and one two-hour laboratory period a week. Four credits.

Psychology 421—*History of Psychology.* (S)

A survey of the historical antecedents of modern psychology. Three credits.

Psychology 432—*Comparative Psychology.* (S)

The study of the behavior of infrahuman organisms. Selected topics from both comparative psychology and ethology include tropisms, interactions of innate factors and learning, sensory capacities, and behavior morphology. Three credits.

Psychology 446—*Physiological Psychology.* (S)

A critical survey of the physiological correlates of behavior with special emphasis on neurophysiological mechanisms, psychopharmacology, neuroendocrine functions, motivations, learning, and conditioning. Laboratory work stresses the methods of physiological investigation. Three lectures and one two-hour laboratory period a week. Four credits.

Psychology 451—*Psychology of Motivation.* (S)

The study of the origins and development of motivating forces and their effects on behavior. Theory and/or experimental data will be considered. Three credits.

Psychology 470, 471, 472, 473, 474—*Selected Topics in Psychology.*

(S)

A study of enduring and/or contemporary issues in psychology. Three credits.

Psychology 491—*Individual Research*.

(S)

The problem(s) to be investigated will be determined by individual interest(s). Each student will be responsible for library research and/or empirical investigation. One to four credits per semester will be allowed, depending upon the quantity of work planned. A maximum of eight credit hours will be allowed toward fulfilling the major field requirement. By permission of a staff member.

The Honors Program in Psychology

A student may graduate with Honors in Psychology by meeting one of the following sets of criteria. Set B. is optional for 1973 graduates, but is mandatory for students who plan to graduate in 1974 and thereafter.

A.

1. An overall gradepoint average of 3.0 and a gradepoint average of 3.3 in Psychology must be attained at the end of seven semesters' work.

2. The student must complete, with a minimum grade of B, at least three credits in a course in Individual Research in Psychology. This may be taken in the student's junior year if the instructor feels that the student is sufficiently prepared to execute adequately a research project.

3. The student must be at or above the 90th percentile on the Psychology field test of the Graduate Record Examination.

B.

1. An overall gradepoint average of 3.0 and a gradepoint average of 3.25 in Psychology must be attained at the end of seven semesters' work.

2. Readings with three different Psychology staff members in three different areas which will be selected by the student's advisor and the Department Chairman. Readings can begin no earlier than the second semester of the student's junior year, and initiated no later than the first semester of the student's senior year. Each staff member involved will formally assess the student's performance at the end of the

Readings course. A minimum grade of B must be earned. Three credits taken in Psychology 491.

3. Independent Research (library or empirical) on a problem of interest to the student. Thesis required. A minimum grade of B must be earned. Three credits taken in Psychology

4. Oral defense of Independent Research project with Psychology staff invited.

RELIGION/*Associate Professor* Elizabeth A. Clark, Chairman; *Assistant Professor* Cain.

A student majoring in religion must take at least twenty-four credits in religion courses (twelve of which must be numbered 300 or higher) and twelve credits in related fields (all of which must be worked out in consultation with an adviser). A six credit seminar consisting of a year's work of readings and discussion culminating in the completion of a senior paper is required of all majors.

At the beginning of the second semester of the senior year, a major is required to pass a written examination in the field of religion which he has prepared for through introductory course work and private study. A make-up examination is offered when necessary.

A distinguished performance on the written examination and senior paper, in addition to a high grade average in religion course work, entitles a major to be graduated with Honors in Religion.

Religion 101—*Biblical Literature: The Hebrew Bible.* (H)

A study of the history, literature and religion of ancient Israel. Three credits.

Religion 102—*Biblical Literature: The New Testament.* (H)

A critical study of the origins and theological motifs of New Testament literature as well as an introduction to the methodology and implications of historical-critical scholarship. Three credits.

Religion 201, 202+—*The Western Religious Heritage.* (H)

An examination of the historical and theological development of

Judaism and of Christianity (primitive, Roman Catholic and Protestant). Three periods a week. Three credits each semester.

Religion 213, 214+—*Modern Religious Thinking.* (H)

An introduction to the diversity of issues and approaches in contemporary theological literature. The first semester considers the European discussion from Barth and Bultmann to Bonhoeffer, Fuchs, Ebeling, Pannenberg and Moltmann. The second semester deals with American contributions from the Niebuhrs to Vahanian, VanBuren, Cox and Keen. Three credits each semester.

Religion 271—*Studies in Faith and Literature.* (H)

Consideration of aspects of Christian thought and literary criticism accompanies the reading of works by Albee, Bernanos, Camus, Dostoevsky, Grass, Hesse, Jimenez, Lawrence and others. Attention focuses on benefits and dangers of various ways of relating faith and literature. Three credits.

Religion 301—*Readings in Hellenistic Religions.* (H)

A study of the types of religious belief, including primitive Christianity, which emerge in the Hellenistic era. The accent throughout is on contemporary parallels. First semester. Three credits.

Religion 306—*Early Christian Thought.* (H)

Studies of the theology of the early church with special attention given to the development of Trinitarian and Christological thought. Second semester. Three credits.

Religion 331—*Studies in Historical Theology.* (H)

The intensive study of a particular problem, theologian, or historical era. Three credits.

Religion 341—*Seminar on Major Religious Thinkers.* (H)

This course will focus in depth on one major thinker of the Western religious tradition. A wide range of problems—theological, philosophical, historical, and aesthetic—will be discussed. Three credits.

Religion 401-402—*Senior Seminar.* (H)

The first semester's study involves all senior majors and staff in readings and discussion. The second semester of the seminar will be devoted to the preparation of a senior paper under the guidance of a department member. Students other than senior majors who have sufficient course work in Religion may register with permission of the department. Six credits.

Religion 491, 492, 493, 494—*Independent Study.*

(H)

Individual work under the guidance of a member of the department. Three credits a semester. By permission of the department.

INTERDEPARTMENTAL COURSES

The following course is given cooperatively by the departments concerned with the natural sciences (Biology, Chemistry, Geology, and Physics). The object is to cut across well-defined areas of knowledge and to show the relationships existing among them.

Character of Science I-II

(N/M)

This course satisfying the science requirements will be team taught by members of the Biology, Chemistry, Geology and Physics/Astronomy Departments. The unifying theme which will persist throughout the different units will be the methodology and character of science. In particular the aspects that will be stressed are (a) the capabilities and limitations of science, (b) the statistical character of natural phenomena and the limitations of measurement, (c) the "interfaces" as well as the contrasts between the disciplines, (d) the trends in scientific knowledge and the search for new laws, and (e) the social impact of science and technology.

3½ weeks of Astronomy, 7 weeks of Physics, 7 weeks of Chemistry, 7 weeks of Biology, 3½ weeks of Geology. Eight credits.



SOCIOLOGY/*Professor L. C. Carter, Chairman; Professors Allen, Sletten; Associate Professor Jessen; Instructors Ellis, Jones*; Lecturer Dibble.*

The major program in sociology requires thirty-six credits in sociology and related social sciences. Twenty-four of these required credits must be earned in sociology courses other than Sociology 201, 202. The twelve additional credit hours in related fields may be selected from other social sciences in consultation with the departmental adviser.

Sociology 201—Principles of Sociology. (S)

A study of the basic characteristics of group life; status, role, society, and culture; interaction between persons and groups. Three periods a week for the first semester. Three credits.

Sociology 202—Social Problems. (S)

Social change; deviance; social and personal disorganization; mobility; delinquency, crime; political, industrial and other group conflicts. Three periods a week for the second semester. Three credits.

Sociology 301-302—Introduction to Anthropology. (S)

First semester foci: history of anthropology, physical anthropology, and archaeology. Second semester foci: ethnology, ethnography, social anthropology, linguistics, technology, and primitive art. Three periods a week. Six credits.

Sociology 303—Culture, Social Structure and Personality. (S)

Prerequisite: six hours of sociology. Impact of culture and social structure upon the individual, and particularly of sociocultural norms and values upon personal attitudes and behavior, with some focus upon behavior disorders. Three periods a week for the first semester. Three credits.

Sociology 311—Population. (S)

Analysis of historical and contemporary population composition and change, and how demographic structure is related to economic, political, religious and kinship structures. Three periods a week for first semester. Three credits.

*On leave 1972-73.

Sociology 312—*Migration*.

(S)

Analysis of population movements, their causes, and effects. Foci: 19th and 20th century migrations and how these are related to contemporary economic and industrial development. Three periods a week for the second semester. Three credits.

Sociology 313—*Urban Society*.

(S)

Origin, character and significance of urban and metropolitan communities. Common problems of city living; ecological factors in growth of cities and their influence upon social behavior. Three periods a week for the second semester. Three credits.

Sociology 314—*Population Trends*.

(S)

World population trends, with special emphasis upon developing nations. Areas for intensive treatment: the "population explosion," its causes and consequences. Impact of population changes on world events. Three periods a week for the first semester. Three credits.

Sociology 315—*Fertility*.

(S)

An analysis of fertility patterns and differentials in human populations; social, economic, biological and demographic factors affecting family size; relationships between fertility and economic and cultural development. Three credits.

Sociology 320—*Community Workshop*.

(S)

Study of the structure and functioning of the modern community. Techniques for analyzing the community are developed and applied by students in conjunction with the needs of various cooperating community organizations. Three periods and three supervised field hours per week. Four credits.

Sociology 331—*The Family*.

(S)

Prerequisite: six hours of sociology or psychology. A historical, social-psychological and cultural study of sex behavior, mate selection, courtship, marriage and family relations. Three periods a week for the first semester. Three credits.

Sociology 332-333—*Introduction to Social Welfare*.

(S)

Prerequisite: Sociology 201, 202. First semester foci: historical backgrounds, philosophies, values, goals, and issues of human welfare concerns; social welfare as a social institution. Second semester foci: social work as a profession; fields, methods, policies, and consequences of social action or inaction. Three periods a week. Six credits.

Sociology 334—*Medical Sociology*.

(S)

An examination of the nature of disease and health as related to

social structure and culture; demographic correlates of incidence and prevalence of various diseases; a role analysis of the health professions; organization of medical practice; organization and decision making in a hospital setting. (Prerequisite: Sociology 201, 202 or approval by Instructor.) Three periods a week for the second semester. Three credits.

Sociology 341—*American Society.* (S)

A study of some of the major aspects of American society. Topics dealt with include some attempts to study American society as a whole; the relations of men and women; the occupational system, the power system and bureaucracy; the problems of leisure. Three credits. (Offered in alternate years; offered in 1972-73.)

Sociology 342—*Occupations and Social Structure.* (S)

Analysis of major occupational roles; of relationships between occupation and kinship organization, as well as of social stratification, social philosophies, and political action. Three periods a week for the second semester. Three credits. (Offered in alternate years; not offered in 1972-73.)

Sociology 351—*Juvenile Delinquency.* (S)

Prerequisite: six hours of sociology or psychology. A sociological analysis of the nature, extent, causes, impact and treatment of juvenile delinquency. Three periods a week for the first semester. Three credits.

Sociology 352—*Criminology.* (S)

Prerequisite: six hours of sociology or psychology. Crime as a reflector of social pathology; its nature, variation, extent, and recent trends; causal theories, mythical and scientific; upper and underworld organization; programs of crime control, prevention, and treatment. Three periods a week for the second semester. Three credits.

Sociology 353—*Social Control.* (S)

Prerequisite: six hours of sociology or psychology. An analysis of social institutional norms; how they regulate and control individual behavior, inducing compliance with authority. Three periods a week for the first semester. Three credits.

Sociology 362—*Methods of Social Research.* (S)

Prerequisite: six hours of sociology. Methods of investigating selected problems of current importance with emphasis upon individual work. Three periods a week for the first semester. Three credits.

Sociology 402—*Sociology of Human Development.* (S)

Prerequisite: six hours of sociology or psychology. Analysis of microsocial structures and processes; socialization and its chief agents; impact of social interaction with siblings, parents and peers. Age-grading

and orientation to vertical social gradients. Three periods a week for the second semester. Three credits.

Sociology 421—*Human Relations.* (S)

Racial and ethnic groups in America; minority-group consciousness; marginal persons and groups; inter-group tension, conflict, accommodation and cooperation. Three periods a week for the second semester. Three credits.

Sociology 422—*Sociology of Religion.* (S)

Prerequisite: Sociology 201. A study of social factors in the origin, development and function of religious institutions, with emphasis upon the basic principles of Judeo-Christian tradition. Three periods a week for the first semester. Three credits.

Sociology 432—*Sociology of Leadership.* (S)

Prerequisite: six hours of sociology or psychology. Causes and consequences of social stratification and social mobility; impact of culture, social structure and social interaction upon occupational achievement, personal creativity, inventiveness and leadership. Three periods a week for the second semester. Three credits. (Offered in alternate years; offered in 1972-73)

Sociology 481—*History of Social Theory.* (S)

Prerequisite: six hours of sociology. A study of theories in the historical development of sociology. Three periods a week for the first semester. Three credits.

Sociology 482—*Contemporary Sociological Theory.* (S)

Prerequisite: six hours of sociology. An analysis of current sociological theory. Three periods a week for the second semester. Three credits.

Sociology 488—*General Readings.* (S)

Prerequisite: six hours of sociology. Selected works ranging over the "sociological classics." Three credits.

Sociology 489—*Special Readings.* (S)

Prerequisite: six hours of sociology plus Sociology 491. Selected readings from various specialized areas: cultural anthropology, marriage and the family, social welfare, delinquency and crime, population, minority groups, social organization, social theory, and the sociology of religion. Three credits.

Sociology 490, 491, 492, 493—*Individual Study and Research.* (S)

Not a regularly given course, but available to qualified students with the agreement of members of the department. Reading and research with a project or paper, under the guidance of a member of the department. Offered as required either semester. Three credits each semester.

Concentration in Social Welfare:

Students electing a concentration in social welfare are provided supervised field placement (at least 120 hours) in a social welfare agency, during one of the regular semesters, or during the summer. Such field placement is ordinarily concurrent with enrollment in a seminar in which an independent study is conducted (Sociology 490, 491). Students enrolled in such a seminar, usually in their senior year, are expected to have completed Sociology 332-333, plus other courses specified in consultation with the instructor.

Concentration in social welfare for sociology majors includes: (1) all the above indicated requirements for sociology majors; (2) Sociology 332-333; (3) at least three courses selected from Sociology 311, 313, 331, 342, 352, 402, and 421; and (4) at least 120 hours of field placement. This program meets the requirements of the Council on Social Work Education, constituent membership in the Council having been applied for.

SPEECH/*Associate Professor* Albert G. Duke, Chairman.

A major program in speech pathology and audiology is offered in cooperation with the University of Virginia (See page 41).

All courses in speech are applicable to the major except Speech 251, 252, Speech Fundamentals Laboratory.

Speech 251, 252+—*Speech Fundamentals Laboratory*. (D/E)

A functional course in reading and speaking, affording practice in basic speech skills. Emphasis is placed on individual speech problems and on the improvement of vocal delivery. Not credited toward a major in Speech. No credit if Speech 331, 332 is taken for credit. One period a week. One credit each semester.

Speech 261—*Voice and Diction*. (D/E)

Theory and practice of principles necessary to the improvement of the speaking voice. Individual analysis is offered with the aim of improving the student's quality, articulation, and pronunciation. Three periods a week. Three credits.

Speech 301—Group Discussion.

(D/E)

A study of the philosophy and practice of group discussion as a means of problem-solving and the exercise of group leadership. Three periods a week. Three credits. (Offered in alternate years; not offered in 1972-73.)

Speech 302—Public Speaking.

(D/E)

A study of the art of public speaking, the organization and delivery of speeches of various types, and an examination of the history and theories of rhetoric. Three periods a week. Three credits. (Offered in alternate years; not offered in 1972-73.)

Speech 331, 332—Oral Interpretation.

(H)

A study of the fundamentals of voice production and clarity of diction as an aid to effective communication. Interpretation of prose, poetry, and dramatic literature in terms of its intellectual, emotional, and aesthetic content. Three periods a week. Three credits each semester.

Speech 361—Voice Science.

(D/E)

A study of the anatomical, physiological, and neurological functioning of the speech and hearing mechanisms and speech problems resulting from the impairment of these systems. Three periods a week. Three credits. (Offered in alternate years; offered in 1972-73.)

Speech 362—Phonetics.

(D/E)

A study of American dialects and standards of speech employing the International Phonetic Alphabet. Three periods a week. Three credits. (Offered in alternate years; offered in 1972-73.)

Speech 481, 482—Individual Study.

(D/E)

Individual study under the direction of a member of the staff. Three credits each semester. By permission of the Department.

STATISTICS/Assistant Professor John C. Lambert, Adviser.

Statistics 200—Introduction to Statistics.

(D/E)

A first course in Statistics, assuming only a background in high school mathematics. Probability, binomial distribution, normal distribution, estimation and tests of hypotheses, chi-square, nonparametric statistics, regression and correlation. Examples from diverse fields, including social and behavioral sciences. Basic ideas are presented using intuitive arguments. Emphasis is on developing ability to reason statistically. Three credits.

Statistics 301, 302—*Introduction to Probability and Statistical Inference.* (D/E)

A careful introduction to discrete and continuous probability and random variables, followed by a treatment of sampling, classical inference, simple analysis of variance and basics of experimental design; the treatment of these latter topics being made in the context of the framework set up in the first semester of the course. Three credits each semester.

Statistics 420—*Readings in Experimental Statistics.* (D/E)

General linear models, randomization and planning of experiments, experimental design and analysis, and other topics as required. Three credits.

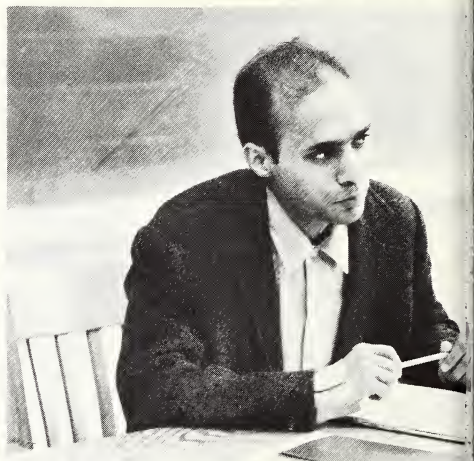
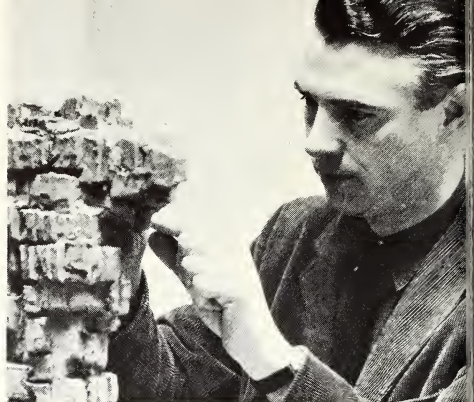
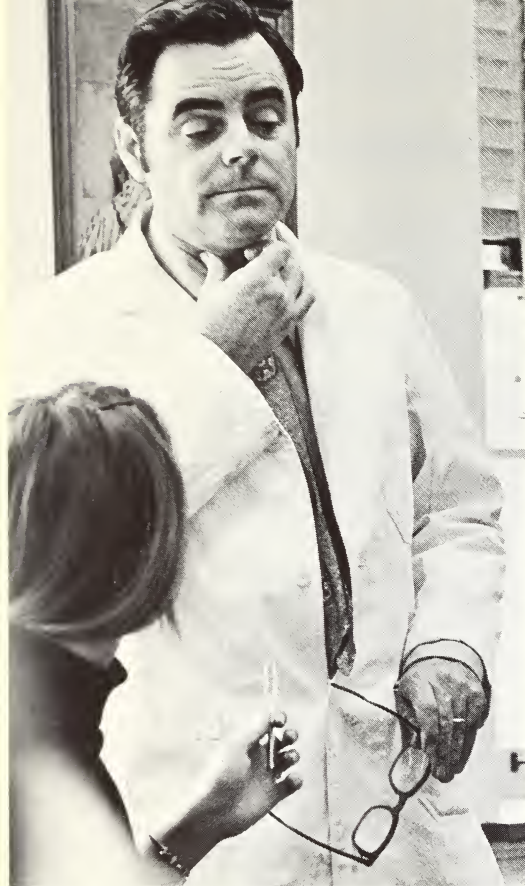
TYPEWRITING COURSES

The courses do not carry college credit and are designed primarily to develop skill in typewriting for personal use. Proper techniques of typewriting and a mastery of the keyboard are developed. To facilitate registration, the following course numbers have been assigned.

Typewriting 121-122—

Three periods a week. No credit.





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THE CORPORATION OF MARY WASHINGTON COLLEGE

Legal Title

“The Rector and Visitors of Mary Washington College”

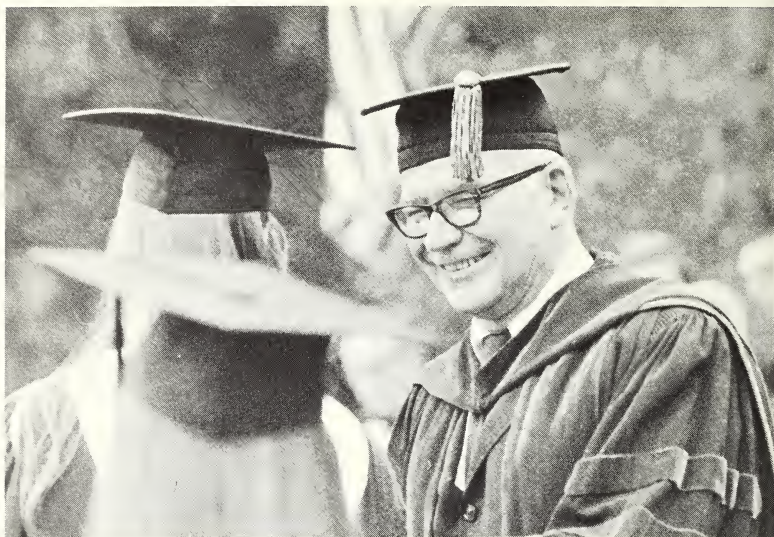
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Irene Lundy Brown	Newport News
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Gwendolyn Amory Cumming	Hampton
Donna Henninger Henderson	Troutville
Katherine E. Hopper	Fairfax
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B.A., Mary Washington College; M.A. in L.S., George Peabody
Library School.

Barbara Alden, B.A., M.A., Ph.D. *Archivist*
B.A., M.A., Wellesley College; Ph.D. University of Chicago.

Renna H. Cosner, A.B., A.M. in L.S. . . *Circulation Librarian*
A.B., Randolph-Macon Woman's College; A.M. in L.S.,
University of Michigan.

Charles D. Balthis, B.A., M.S. in L.S. *Head Cataloguer*

B.A., Randolph-Macon College; M.S. in L.S., Catholic University of America.

Ronald K. Hoeflin, B.A., M.L.S. *Assistant Cataloguer*

B.A., University of Minnesota; M.L.S., Indiana University.

Diane D. Fishman, B.A., M.S. in L.S. . . . *Staff Bibliographer*

B.A., Cornell University; M.S. in L.S., University of Illinois.

Mary J. Porter, B.A., M.A., M.S. in L.S. *Reference Librarian*

B.A., Mary Washington College; M.A., George Washington University; M.S. in L.S., Catholic University of America.

Janie M. Kash, B.A. *Library Assistant-Serials*

B.A., Randolph-Macon Woman's College.

Taketo Ohtani, A.A., B.A., M.A. *Library Assistant*

A.A., Hiwassee College; B.A., M.A., Scarritt College.

Reed K. Simmons, B.A. . . . *Library Assistant-Circulation*

B.A. Mary Washington College.

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Medical Staff*
B.S., University of the South; D.D.S., M.S.D., Baylor University.
- Raymond Jones, M.B. *Associate, Medical Staff*
M.B.-B.S., University College of the West Indies in Jamaica
(London University).
- Andrew McDaniel, D.D.S., ... *Associate, Medical Staff*
D.D.S., Orthodontics Degree., Medical College of Virginia.
- Raymond E. Matson, B.A., M.D. . . . *Associate, Medical Staff*
B.A., M.D., Ohio State University.
- David B. Rice, B.A., M.D. *Associate, Medical Staff*
B.A., M.D., University of Virginia.
- Virginia H. Cullen, R.N. *Head Nurse*
R.N., Syracuse Memorial School of Nursing.
- Bessie T. Olive, R.N. *Nurse*
R.N., Mary Washington Hospital Training School.
- Dorothy T. Shannon, R.N. *Nurse*
R.N., Sarah Leigh Hospital, Norfolk.
- Charlotte H. White, R.N. *Nurse*
R.N., Johnston-Willis Hospital, Richmond.

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- Bobby W. Carter *Supervisor, Tabulating Office*
- Jessie F. Colvin *Operator, Switchboard*
- Janet J. DeShazo *Payroll Supervisor*
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- Lois J. Embrey *Bookkeeper*
- Barbara Y. Ferrara *Disbursing Clerk*
- Mabel Gallahan *Operator, Switchboard*
- Josephine S. Henshaw *Payroll Clerk*
- Rosser C. Howard *Duplicating Services
Supervisor*
- Linda M. Martin *Mail Services Supervisor*
- Frances S. Melle *Cashier*

Jane R. Shelton *Disbursing Clerk*
 Carolyn T. Phillips *Tabulating Clerk*

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 Robert E. Revell *Assistant Superintendent of
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 Whiting B. Lee *Assistant to the Director*
 Mildred J. McGinniss *Assistant to the Director*
 David H. Stack *Assistant to the Director*
 Cecelia E. Hairfield *Secretary to the Director*
 Mary Lee H. Carter *Manager, College Shop*
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 Annie S. Gallant *Hostess, Dining Hall*
 Mary W. Jones *Hostess, Dining Hall*
 Ina M. Pitts *Hostess, Dining Hall*
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Mary D. Ross *Secretary*
Ruth W. Brewer *Secretary*

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Charles W. Jones *Deputy, Chief Campus Police*
Daniel W. Bishop *Campus Policeman*
William A. Chewning *Campus Policeman*
Harold B. English *Campus Policeman*
Edward G. Ramsey *Campus Policeman*
Howard R. Rose *Campus Policeman*
William R. Viar *Campus Policeman*

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Tri-Unit-Westmoreland Hall
Christine Davis *Senior Assistant, Bushnell Hall*
Irene G. Doran *Residence Director, Virginia Hall*
Virginia C. Gallamore *Residence Director, Willard Hall*
Marion E. George *Complex Director,*
Randolph Hall-Mason Hall
Nellie F. Henry *Complex Director,*
Jefferson Hall-Bushnell Hall
Jacquelin Huard *Senior Assistant, Randolph Hall*
Prudence Hutton *Senior Assistant, Westmoreland Hall*
Mary Marvey *Administrative Aide, Marye Hall*
Roberta Pilk *Administrative Aide, Framar*
Helen H. Prasse *Complex, Director*
Marshall Hall-Russell Hall
Kathryn Thompson *Administrative Aide, Brent Hall*
Judy Vogler *Senior Assistant, Russell Hall*
Brenda Wirt *Administrative Aide, Trench Hill*

FACULTY (1971-1972)

Edward Alvey, Jr., B.A., M.A., Ph.D.

Professor Emeritus of Education

B.A., M.A., Ph.D., University of Virginia.

Guenndolyn A. Beeler, A.A., B.S., M.A.

Professor Emeritus of Home Economics

A.A., Kansas City Junior College; B.S., Kansas State College; M.A., Columbia University.

Mildred M. Bolling, A.B., A.M.

Professor Emeritus of Modern Foreign Languages

A.B., Colorado College; A.M., University of Missouri; diploma, Institut de Phonetique, University of Paris.

Vladimir V. Brenner

Professor Emeritus of Modern Foreign Languages

State Gymnasium of Moscow; Officer of Academic Degree, Military Academy, Tver, Russia.

Louis J. Cabrera, A.B., M.A., Ph.D.

Professor Emeritus of Modern Foreign Languages

A.B. University of Dubuque; M.A., University of Maine; Doctor of Letters and Philosophy, University of Madrid.

William A. Castle, B.S., Ph.D.

Professor Emeritus of Biology

B.S., Denison University; Ph.D., University of Chicago.

Oscar H. Darter, A.B., A.M., Ed.D.

Professor Emeritus of History

A.B., State Teachers College, Ada, Oklahoma; A.M., Columbia University; Ed.D., George Washington University.

Eileen K. Dodd, Ph.B., M.A., Ph.D.

Professor Emeritus of Psychology

Ph.B., Muhlenberg College; M.A., Ph.D., New York University.

E. Boyd Graves, A.B., A.M., Ed.D.

Professor Emeritus of Philosophy

A.B., A.M., College of William and Mary; Ed.D., George Washington University.

Clifton B. McIntosh, A.B., Ph.D.

Professor Emeritus of Modern Foreign Languages

A.B., Duke University; M.A., Ph.D., University of Virginia.

Milton H. Stansbury, A.B., Ph.D.

Professor Emeritus of Modern Foreign Languages

A.B., Brown University; Ph.D., University of Pennsylvania.

Reginald W. Whidden, B.A., M.A., Ph.D.

Professor Emeritus of English

B.A., M.A., McMaster University; Ph.D., Yale University.

Dorothy D. Van Winckel, B.S., M.A.

Professor Emeritus of Art

B.S., University of Tennessee; M.A. in Fine Arts, Peabody College; Student, Arts Students' League, New York City, and Pennsylvania Academy of Fine Arts.

Edgar E. Woodward, B.S.

Professor Emeritus, Comptroller

B.S., Ohio State University.

Professors

Phillip J. Allen, A.B., M.A., B.D., Ph.D.

Professor of Sociology

A.B., Ohio Northern University; M.A., Northwestern University; B.D., Garret Theological Seminary; Ph.D., The American University.

Rachel J. Benton, B.A., M.A., Ph.D.

Professor of Health, Physical Education, and Recreation

B.A., De Pauw University; M.A., Ph.D., State University of Iowa.

Julien Binford
Professor of Art

Graduate, Art Institute of Chicago, Ryerson Fellowship for study in France, Virginia Museum Senior Fellowship, Rosenwald Fellowship. Represented in permanent collections of Boston Museum of Fine Arts, University of Georgia, University of Nebraska, Art Institute of Chicago, Museum of the State of Washington, Virginia Museum of Fine Arts, Springfield Museum, New Britain Museum, Oberlin College, and others.

Samuel O. Bird, B.S., M.S., Ph.D.
Professor of Geology

B.S., Marshall College; M.S., University of Wisconsin; Ph.D., University of North Carolina.

Zoe W. Black, B.A., A.M., Ph.D.
Professor of Biology

B.A., University of Tennessee; A.M., Ph.D., Duke University.

Stanley F. Bulley, Mus. Bac., Mus. Doc.
Professor of Music

L.R.A.M., Royal Academy of Music, London; A.R.C.O., Royal College of Music, London; Royal School of Church Music, London; Mus. Bac., Mus. Doc., University of Toronto.

Hobart C. Carter, B.S., M.A., Ph.D.
Professor of Mathematics

B.S., Central Missouri State College; M.A., Ph.D., University of Missouri.

L. Clyde Carter, Jr., B.A., M.Div., Ph.D.
Professor of Sociology

B.A., Carson-Newman College; M. Div., Union Theological Seminary; Ph.D., Yale University.

Herbert L. Cover, B.S., M.S., Ph.D.
Professor of Chemistry

B.S., M.S., Ph.D., University of Virginia.

James H. Croushore, B.A., M.A., Ph.D.

Professor of English

B.A., M.A., Lehigh University; Ph.D., Yale University.

Benjamin W. Early, B.A., M.A., Ph.D.

Professor of English

B.A., M.A., University of Virginia; Ph.D., Duke University.

Jean Slater Edson, A.B., M.A.

Professor of Music

A.B., Vassar College; M.A., Columbia University; A.A.G.O. CH.M., American Guild of Organists.

Samuel T. Emory, Jr., A.B., M.A., Ph.D.

Professor of Geography

A.B., M.A., University of North Carolina; Ph.D., University of Maryland.

Lewis P. Fickett, Jr., A.B., L.L.B., M.P.A., Ph.D.

Professor of Political Science

A.B., Bowdoin College; L.L.B., M.P.A., Ph.D., Harvard University.

Marion A. Greene, A.B., M.A., Ph.D.

Professor of Modern Foreign Languages

A.B., Tufts College; M.A., Radcliffe College; Ph.D., University of North Carolina.

William W. Griffith, A.B., B.S. in L.S., M.A., Ph.D.

Professor of English

A.B., University of Pennsylvania; B.S. in L.S., Drexel Institute; M.A., Harvard University; Ph.D., University of Pittsburgh.

Henry W. Hewetson, B.A., M.A., Ph.D.

Professor of Economics

B.A., University of Toronto; M.A., University of British Columbia; Ph.D., University of Chicago.

Miriam B. Hoge, A.B., M.A., Ph.D.

Professor of Modern Foreign Languages

A.B., Randolph-Macon Woman's College; M.A., Ph.D., University of Pennsylvania.

Anna S. Hoye, A.B., M.S., Ph.D.

Professor of Biology

A.B., Lynchburg College; M.S., Ph.D., University of Wisconsin.

Earl G. Insley, B.S., Ph.D.

Professor of Chemistry

B.S., Ph.D., Johns Hopkins University.

Edwin H. Jones, B.A., M.A., Ph.D.

Professor of Modern Foreign Languages

B.A., Hampden-Sydney College; M.A., Duke University; Ph.D., University of Virginia.

Walter B. Kelly, B.S., M.A., Ph.D.

Professor of English

B.S., Ursinus College; M.A., Ph.D., University of Pennsylvania.

Pauline G. King, B.S., M.A., Ph.D.

Professor of Art

B.S., Mary Washington College; Art Institute of Chicago; M.A., George Peabody College; Ph.D., University of Chicago.

Kurt F. Leidecker, B.A., A.M., Ph.D.

Professor of Philosophy

B.A., A.M., Oberlin College; Ph.D., University of Chicago.

Almont Lindsey, B.S., M.A., Ph.D.

Professor of History

B.S., Knox College; M.A., Ph.D., University of Illinois.

George E. Luntz, B.M., M.M., Ph.D.

Professor of Music

B.M., M.M., Dana School of Music; Graduate, Master Class, Vienna Conservatory; Ph.D., State University of Iowa.

Sidney H. Mitchell, B.A., M.A., Ph.D.

Professor of English

B.A., Swarthmore College; M.A., Ph.D., University of Virginia.

Mary Jo Parrish

Professor of Biology

B.A., M.A., University of North Carolina; Ph.D., University of Virginia.

William C. Pinschmidt, Jr., B.S., M.S., Ph.D.

Professor of Biology

B.S., Mount Union College; M.S., Ohio State University; Ph.D., Duke University.

Claudia M. Read, B.S., M.A.

Professor of Health, Physical Education, and Recreation

B.S., Woman's College of the University of North Carolina; M.A., New York University.

Carmen L. Rivera, B.A., M.A., Ph.D.

Professor of Modern Foreign Languages

B.A., University of Puerto Rico; M.A., Florida State College for Women; Ph.D., University of Salamanca.

Grellet C. Simpson, B.A., M.A., Ph.D., LL.D.

Professor of English

B.A., Randolph-Macon College; M.A., Ph.D., University of Virginia; LL.D., Randolph-Macon College.

Charles A. Sletten, B.A., A.M., Ph.D.

Professor of Sociology

B.A., University of Virginia; A.M., Ph.D., Harvard University.

Mary Ellen Stephenson, B.A., M.A., Ph.D.

Professor of Modern Foreign Languages

B.A., Westhampton College; M.A., Middlebury College; Ph.D., University of Chicago.

Laura V. Sumner, A.B., M.A., Ph.D.

Professor of Classics

A.B., Vassar College; M.A., Ph.D., Johns Hopkins University.

Raiford E. Sumner, B.A., M.A., Ph.D.

Professor of Political Science

B.A., University of Tennessee; M.A., University of Mississippi; Ph.D., Louisiana State University.

Joseph C. Vance, B.A., M.A., Ph.D.

Professor of History

B.A., M.A., Ph.D., University of Virginia.

*George M. Van Sant, A.B., M.A., Ph.D.

Professor of Philosophy

A.B., St. John's College; M.A., Ph.D., University of Virginia.

Lawrence A. Wishner, B.S., M.S., Ph.D.

Professor of Chemistry

B.S., M.S., Ph.D., University of Maryland.

Daniel H. Woodward, B.A., M.A., M.S. in L.S., Ph.D.

Professor of English

B.A., M.A., University of Colorado; M.S. in L.S., Catholic University of America; Ph.D., Yale University.

Associate Professors

Margery E. Arnold, B.S., M.A.

Associate Professor of Health, Physical Education, and Recreation

B.S., Russell Sage College, M.A., Columbia University.

*On leave of absence, 1971-72.

Bulent I. Atalay, B.S., M.S., Ph.D.

Associate Professor of Physics

B.S., M.S., Ph.D., Georgetown University.

James E. Baker, B.S., M.Ed.

Associate Professor of Music

B.S., M.Ed., Pennsylvania State University.

Juliette B. Blessing

Associate Professor of Modern Foreign Languages

Licence-des-Lettres, University of Lille; Diplome d'Ecole des Sciences Politiques, University of Paris; Diplome d'Etudes Superieures, University of Paris.

Roger J. Bourdon, B.S., M.A., Ph.D.

Associate Professor of History

B.S., Loyola University; M.A., University of California at Los Angeles; Ph.D., University of Los Angeles.

Marshall E. Bowen, B.Ed., M.A., Ph.D.

Associate Professor of Geography

B.Ed., Plymouth Teachers College; M.A., Kent State University; Ph.D., Boston University.

Joseph Bozicevic, B.S., M.A., Ph.D.

Associate Professor of Modern Foreign Languages

B.S., Juniata College; M.A., Middlebury College; Ph.D., Georgetown University.

Nathaniel H. Brown, A.B., M.A., Ph.D.

Associate Professor of English

A.B., Princeton University; M.A., Syracuse University; Ph.D., Columbia University.

Marion K. Chauncey, B.M., M.A.

Associate Professor of Music

Graduate, Georgia State Woman's College; B.M., Ithaca Conservatory of Music; M.A., Columbia University.

Elizabeth A. Clark, A.B., M.A., Ph.D.

Associate Professor of Religion

A.B., Vassar College; M.A., Ph.D., Columbia University.

Mildred A. Droste, B.S., M.Ed.

Associate Professor of Health, Physical Education and Recreation.

B.S., Longwood College; M.Ed., Woman's College of the University of North Carolina.

Albert G. Duke, A.B., M.A.

Associate Professor of Dramatic Arts and Speech

A.B., M.A., Syracuse University.

Victor A. Fingerhut, B.A., M.A.

Associate Professor of Economics and Political Science

B.A., M.A., Yale University.

Delmont F. Fleming, B.A., M.A., Ph.D.

Associate Professor of English

B.A., Eastern Baptist College; M.A., Ph.D., University of Pennsylvania.

Donald E. Glover, B.A., M.A., Ph.D.

Associate Professor of English

B.A., College of William and Mary; M.A., Ph.D., University of Virginia.

Miriam J. Greenberg, B.S., M.Ed.

Associate Professor of Health, Physical Education, and Recreation.

B.S., M.Ed., University of Maryland.

Anne F. Hamer, B. Mus., M. Mus.

Associate Professor of Music

B.Mus., University of Michigan; M.Mus., Catholic University.

Anna Mae Harris, B.A., M.A.

Associate Professor of Mathematics

B.A., Mary Washington College; M.A., University of Virginia.

Rosemary H. Herman, A.B., M.A.

Associate Professor of Modern Foreign Languages

A.B., Woman's College of the University of North Carolina; M.A., University of North Carolina.

Margaret M. Hofmann, A.B., M.A., Ph.D.

Associate Professor of Modern Foreign Languages

A.B., Wellesley College; M.A., University of New Hampshire; Ph.D., University of Kansas.

Levin Houston, III, B.A.

Associate Professor of Music

B.A., Virginia Military Institute.

Michael Houston, B.A., M.A.

Associate Professor of History

B.A., Randolph-Macon College; M.A., (Communications), The American University; M.A., (History), The American University.

Robert B. Jessen, A.B., Ph.D.

Associate Professor of Sociology

A.B., Union College; Ph.D., Brown University.

Rose Mary Johnson, A.B., M.A., Ph.D.

Associate Professor of Biology

A.B., Hood College; M.A., Ph.D., University of Virginia.

Thomas L. Johnson, B.A., M.A., Ph.D.

Associate Professor of Biology

B.A., Lynchburg College; M.A., Ph.D., University of Virginia.

Mary A.K. Kelly, B.A., M.A.

Associate Professor of Psychology

B.A., Mary Washington College; M.A., Ohio State University.

Bernard C. Lemoine, B.M., M.M.

Associate Professor of Music

B.M., Oberlin Conservatory of Music; M.M., University of Illinois School of Music.

Bernard L. Mahoney, Jr., B.S., M.S., Ph.D.

Associate Professor of Chemistry

B.S., M.S., Boston College; Ph.D., University of New Hampshire.

A. Ray Merchant, B.A., M.Ed., D.Ed.

Associate Professor of Education

B.A., Emory and Henry College; M.Ed., D.Ed., University of Virginia.

Fred E. Miller, A.B., M.A.

Associate Professor of Economics

A.B., M.A., Colorado State College of Education.

Nancy H. Mitchell, B.A., M.A., Ph.D.

Associate Professor of English

B.A., Swarthmore College; M.A., Yale University; Ph.D., Catholic University of America.

Paul C. Muick, B.F.A., A.M. Ph.D.

Associate Professor of Art

B.F.A., Ohio State University; A.M., University of Chicago; Ph.D., Ohio State University.

Nikola M. Nikolic, B.S., M.A., Ph.D.

Associate Professor of Physics

B.S., Belgrade University; M.A., Ph.D., Columbia University.

Cornelia D. Oliver, B.A., A.M., Ph.D.

Associate Professor of Art

B.A., Smith College; A.M., Duke University; Ph.D., Catholic University of America.

*Galo R. Perez, B.A., M.A., Ph.D.

Associate Professor of Modern Foreign Languages

B.A., Mejia National College; M.A., Ph.D., Central University of Ecuador.

*On leave of absence, 1971-72.

Paul C. Slayton, Jr., B.S., M.Ed., D.Ed.

Associate Professor of Education

B.S., M.Ed., D.Ed., University of Virginia.

Glen R. Thomas, B.A., M.A., Ph.D.

Associate Professor of American Studies

B.A., Stanford University; M.A., The American University; Ph.D., Emory University.

Thomas S. Turgeon, B.A., D.F.A.

Associate Professor of Dramatic Arts and Speech

B.A., Amherst College; D.F.A., Yale University.

Roy B. Weinstock, B.A., M.A., Ph.D.

Associate Professor of Psychology

B.A., Brooklyn College; M.A., Hollins College; Ph.D., Syracuse University.

Rebecca T. Woosley, A.B., B.S., M.S.

Associate Professor of Health, Physical Education, and Recreation.

A.B., Woman's College of the University of North Carolina; B.S., Mary Washington College, M.S., Louisiana State University.

Benjamin F. Zimdars, B.A., M.A., Ph.D.

Associate Professor of History

B.A., North Central College; M.A., University of Wisconsin; Ph.D., University of Texas.

Assistant Professors

John M. Albertine, A.B.

Assistant Professor of Economics and Political Science

A.B., King's College

Clavio F. Ascari, Dottore in LL.MM., Professore

Assistant Professor of Modern Foreign Languages

Dottore in Lettere Moderne, Università Bocconi, Milano-Abilitazione all'Insegnamento-Professore di Ruolo-Diploma in Esperanto-Middlebury College Language Schools Faculty Member.

Janet F. Bonyhard, B.A., M.A.

Assistant Professor of Philosophy

B.A., Leeds University; M.A., Bedford College, University of London.

Marilyn Bresler, B.A., M.S.

Assistant Professor of Psychology

B.A., Brooklyn College; M.S., University of Massachusetts.

John P. Bruckner, B.A., M.A.

Assistant Professor of Modern Foreign Languages

B.A., Goshen College; M.A., Wayne State University.

Kent W. Butzine, B.A., M.A., Ph.D.

Assistant Professor of Psychology

B.A., Northwestern University; M.A., Ph.D., University of North Carolina.

Donald V. Byrd, B.S., M.A.

Assistant Professor of Geography

B.S., M.A., University of Southern Mississippi.

David W. Cain, A.B., B.D., M.A.

Assistant Professor of Religion

A.B., Princeton University; B.D., Yale University Divinity School; M.A., Princeton University.

R. Bruce Carruthers, B.A., M.A.

Assistant Professor of English

B.A., Bucknell University; M.A., University of Iowa.

William B. Clatanoff, Jr., B.A., M.A., Ph.D.

Assistant Professor of Economics and Political Science

B.A., Duke University; M.A., Ph.D., University of Maryland.

Juanita H. Clement, B.S., M.A.

Assistant Professor of Health, Physical Education, and Recreation.

B.S., Radford College; M.A., George Peabody College.

William B. Crawley, Jr., B.A., M.A.

Assistant Professor of History

B.A., Hampden-Sydney College; M.A., University of Virginia.

Judith A. Crissman, B.A., Ph.D.

Assistant Professor of Chemistry

B.A., Thiel College; Ph.D., University of North Carolina.

Dennis G. DaLuiso, B.S., M.F.A.

Assistant Professor of Dramatic Arts

B.S., Canisius College; M.F.A., Yale School of Drama.

Daniel A. Dervin, B.S., M.A., Ph.D.

Assistant Professor of English

B.S., Creighton University; M.A., Ph.D., Columbia University.

A. Stephen Disraeli, B.A., M.A., Ph.D.

Assistant Professor of Linguistics

B.A., New York University; M.A., Ph.D., Indiana University.

Ricardo D. Dobson, A.B., Ph.D.

Assistant Professor of Psychology

A.B., New York University; Ph.D., Arizona State University.

Eric V. Eslinger, B.S., Ph.D.

Assistant Professor of Geology

B.S., West Virginia University; Ph.D., Case Western Reserve University.

Ruth T. Friedman, B.S., Ph.D.

Assistant Professor of Biology

B.S., Ph.D., Medical College of Virginia.

Janet M. Gardner, B.S., M.A.

Assistant Professor of Mathematics

B.S., St. Francis College; M.A., Duquesne University.

John K. George, A.B., M.S.

Assistant Professor of Chemistry

A.B., Columbia College; M.S., University of Connecticut.

James B. Gouger, B.A., M.A.

Assistant Professor of Geography

B.A., Montclair State College; M.A., University of Florida.

Susan J. Hanna, B.A., M.A., Ph.D.

Assistant Professor of English

B.A., Ohio State University; M.A., Ph.D., University of Michigan.

Richard E. Hansen, B.A., M.A.

Assistant Professor of English

B.A., M.A., Duke University.

Ruby C. Harris, B.S., M.Ed.

Assistant Professor of Home Economics

B.S., Mary Washington College; M.Ed., University of Virginia.

Mathew Herban, III, B.A., A.M., Ph.D.

Assistant Professor of Art

B.A., The American University; A.M., Boston University; Ph.D., University of Pennsylvania.

Barbara S. Hochstetler, B.A., M.A.

Assistant Professor of Art

B.A., Trinity University; M.A., University of Maryland.

Joseph E. Holmes, B.S., M.S.

Assistant Professor of Education

B.S., M.S., State University of New York at New Paltz.

Catherine H. Hook, B.S., M.S.

Assistant Professor of Education

B.S., Madison College; M.S., University of Virginia.

Ayako Imai, B.A., M.A.

Assistant Professor of Art

B.A., Tsuda Women's College; M.A., Columbia University.

Mildred C. Jamison, B.S., M.S.

Assistant Professor of Home Economics

B.S., East Tennessee State College; M.S., University of Tennessee.

Lafayette J. Jones, B.S., M.A.T.

Assistant Professor of Mathematics

B.S., United State Naval Academy; M.A.T., Duke University.

Lucile C. Jones, A.B., M.A.

Assistant Professor of Classics

A.B., Sweet Briar College; M.A., University of Virginia; M.A., University of Michigan; Roman Civilization Certificate, American Academy in Rome, Italy; Greek Civilization Certificate, American School of Classical Studies, Athens.

James W. Kemp, Jr., B.A., M.A., Ph.D.

Assistant Professor of English

B.A., Millsaps College; M.A., Mississippi State University; Ph.D., University of South Carolina.

Bernard N. Klenke, B.S.

Assistant Professor of History

B.S., Georgetown University.

Elaine C. Koffman, B.A., M.A., Ph.D.

Assistant Professor of Psychology

B.A., M.A., Ph.D., Northwestern University.

John C. Lambert, B.S., M.E.S.

Assistant Professor of Statistics

B.S., Brigham Young University; M.E.S., North Carolina State University.

John L. Lamph, A.A., B.A., M.F.A.

Assistant Professor of Art

A.A., Fullerton Junior College; B.A., California State College at Fullerton; M.F.A., Claremont Graduate School, Claremont.

Alexander J. Lindsey, B.S., M.S., M.A., Ph.D.

Assistant Professor of Mathematics

B.S., State University College; M.S., M.A., Ph.D., Syracuse University.

Bruce D. MacEwen, B.A., M.A., Ph.D.

Assistant Professor of Psychology

B.A., LaVerne College; M.A., University of California at Los Angeles; Ph.D., Arizona State University.

Lloyd J. Mallan, B.A., M.F.A.

Assistant Professor of Dramatic Arts

B.A., Pennsylvania State University; M.F.A., Carnegie-Mellon University.

Paul B. Manchester, B.A.

Assistant Professor of Economics and Political Science.

B.A., Yale University.

John C. Manolis, B.A., M.A.

Assistant Professor of Modern Foreign Languages

B.A., Assumption University; M.A., Florida State University; diploma, Institut de Phonetique, University of Paris.

Michael L. Mery, B.A., M.A., Ph.D.

Assistant Professor of Psychology

B.A., San Francisco State College; M.A., Ph.D., Syracuse University.

Robert L. Nadeau, B.A., M.A., Ph.D.

Assistant Professor of English

B.A., The University of the South; M.A., Ph.D., University of Florida.

Patricia J. Pierce, B.A., M.S.

Assistant Professor of Mathematics

B.A., University of Colorado; M.S., Oregon State University.

*Mary W. Pinschmidt, A.B., A.M.

Assistant Professor of Biology

A.B., Western Maryland College; A.M., Duke University.

Alice B. Rabson, A.B., M.S., Ph.D.

Assistant Professor of Psychology

A.B., Cornell University; M.S., Ph.D., Purdue University.

Key S. Ryang, B.A., M.A., Ph.D.

Assistant Professor of History

B.A., Trinity University; M.A., Ph.D., Columbia University.

Richard L. Sarchet, B.S., M.S.

Assistant Professor of Mathematics

B.S., Southwestern State College, Oklahoma; M.S., Oklahoma State University.

Edward F. Shaughnessy, Jr. B.S., Ed.M., M.A.

Assistant Professor of Education

B.S., Boston College; Ed.M., Boston State College; M.A., Northeastern University.

Raman K. Singh, B.A., M.A., Ph.D.

Assistant Professor of English

B.A., St. Stephen's College; M.A., Western Michigan University, Ph.D., Purdue University.

Roy H. Smith, B.S., Ph.D.

Assistant Professor of Psychology

B.S., University of Tennessee; Ph.D., University of Pennsylvania.

Peter V. Snyder, B.A., M.A., Ph.D.

Assistant Professor of Philosophy

B.A., M.A., Bowling Green University; M.A., University of Massachusetts; Ph.D., (four college consortium) – Amherst, Mt. Holyoke, Smith, and the University of Massachusetts.

*On leave of absence, 1971-72.

Arthur L. Tracy, B.A., M.A.

Assistant Professor of History

B.A., Barrington College; M.A., The American University.

Sue Collins Tussey, B.S., M.S.

Assistant Professor of Health, Physical Education, and Recreation

B.S., Eastern Kentucky University; M.S., University of Tennessee.

Alexander K. Tyree, B.S., M.A.T.

Assistant Professor of Mathematics

B.S., U.S. Naval Academy; M.A.T., Duke University.

Richard H. Warner, A.B., M.A.

Assistant Professor of History

A.B., Dartmouth College; M.A., New York University.

Paul M. Zisman, B.A., M.A.T.

Assistant Professor of Education

B.A., College of William and Mary; M.A.T., Howard University.

Instructors

Peter J. Armbrust, B.A., M.A.

Instructor in Modern Foreign Languages

B.A., Canisius College; M.A., The Johns Hopkins University.

Rosalia C. Ascari, Dott. in L.L.

Instructor in Modern Foreign Languages

Dottore in Lingue e Lett. Moderne, Università Bocconi, Milano.

Michael L. Bass, A.A., B.S., M.S.

Instructor in Biology

A.A., Clinch Valley College; B.S., Virginia Polytechnic Institute;
M.S., Medical College of Virginia.

Otho C. Campbell, B.A., M.A.

Instructor in History

B.A., Richmond College; M.A., The American University.

Jeanne D. Chalifoux

Instructor in Music

Graduate, Curtis Institute of Music.

Marcia C. Chaves, B.A., M.A.

Instructor in Modern Foreign Languages

B.A., Mary Washington College; M.A., University of Virginia.

Sonja Dragomanovic

Instructor in Health, Physical Education, and Recreation

Professional Dance Certificate, Zagreb State Opera Ballet School, Yugoslavia; diploma, Meister Staten Fur Tranz, Berlin, Germany; Mozarteum Conservatory of Music, Salzburg, Austria.

Joseph J. Ellis, B.A., M.A.

Instructor in Sociology

B.A., Millsaps College; M.A., Western Kentucky University.

Peter A. Fellowes, B.A., M.A.

Instructor in English

B.A., Colgate University; M.A., Johns Hopkins University.

Kathleen Harty, B.S.

Instructor in Health, Physical Education, and Recreation.

B.S., The Juilliard School.

*Constantine A. Jones, B.A., M.A.T.

Instructor in Sociology

B.A., M.A.T., Vanderbilt University.

Harold A. M. Kirschner

Instructor in Health, Physical Education, and Recreation

Graduate of Officers' Training School, Copenhagen, Denmark.

*On leave of absence, 1971-72.

John M. Kramer, B.A., M.A.

Instructor in Economics and Political Science

B.A., LaSalle College; M.A., University of Virginia.

Frederick C. Landis, A.B., M.A.

Instructor in Classics

A.B., Davidson College; M.A., University of Kansas.

Melinda C. Lorenz, B.A., M.A.

Instructor in Art

B.A., M.A., University of Maryland.

Carlton R. Lutterbie, Jr., B.S., M.A.

Instructor in English

B.S., Northwestern University; M.A., University of Chicago.

Takeo Ohtani, A.A., B.A., M.A.

Instructor in Modern Foreign Languages

A.A., Hiwassee College; B.A., M.A., Scarritt College.

Leslie E. Pitts, B.A., M.S.

Instructor in Physics

B.A., Kalamazoo College; M.S., Georgetown University.

Joanna L. Quann, A.B., M.A.

Instructor in Modern Foreign Languages

A.B., Wesleyan College; M.A., Duke University.

Yvonne M. Sabine, B.A.

Instructor in Music

B.A., The American University.

Judith K. Warner, A.B., M.A.

Instructor in Modern Foreign Languages

A.B., Upsala College; M.A., New York University.

Richard T. Wilfong, B.S., M.S.

Instructor in Biology

B.S., College of William and Mary; M.S., Virginia Polytechnic Institute.

Assistant Instructors

Martha J. Burke, B.S.

Assistant Instructor in Chemistry

B.S., Mary Washington College.

Nancy C. Dosch, B.S.

Assistant Instructor in Health, Physical Education, and Recreation.

B.S., University of Maryland.

Lydie S. Mann

Assistant Instructor in Modern Foreign Languages

Baccalaureat, Lyce Georgesville, Paris; diploma, Institut de Phonétique, University of Paris.

Visiting Lecturers

Eleanor D. Dibble, B.A., M.S.W.

Visiting Lecturer in Social Work

B.A., Oberlin College; M.S.W., School of Social Work, University of Pittsburgh.

Teruo Hara, B.A., M.A.

Visiting Artist

B.A., M.A., Tokyo Kyoiko University, Japan.

Richard J. Krickus, B.A., M.A., Ph.D.

Visiting Lecturer in Economics and Political Science

B.A., College of William and Mary; M.A., University of Massachusetts; Ph.D., Georgetown University.

DEGREES CONFERRED

June, 1971

Bachelor of Arts

With Honors in English

Marilyn Alice Belknap	Falls Church, Va.
Deborah Lynn Biemiller	Reisterstown, Md.
Adrienne Leslie Crabb	Fredericksburg, Va.
Deborah Kay Willoughby	Alexandria, Va.

With Honors in Religion

Roberta Purner	Allison Park, Pa.
----------------	-------------------

Bachelor of Arts

Bettie Shannon Adams	Richmond, Va.
Karen Elizabeth Adlam	Jenkintown, Pa.
Lynn Cox Alt	Wytheville, Va.
Linda Jane Andrews	Springfield, Va.
Elizabeth Andrews	Salem, Va.
Pamela Jo Apperson	Charlottesville, Va.
Francesca Teresa Arico	Annandale, Va.
Mary Mitchell Armstrong	Lovettsville, Va.
Susannah Everard Athey	Virginia Beach, Va.
Barbara Andrews Babcock	Absecon, N. J.
Penn Elizabeth Bailey	Madison, Conn.
Cynthia-Ann Ballou	Virginia Beach, Va.
Alice Bonney Barber	Washington, D. C.
Agnes Lisa Barker	Danville, Va.
Cynthia Ann Barnett	Staunton, Va.
Betty Harris Barnhardt	Davidson, N. C.
Nancy Battaglia	Springfield, Va.
Carolyn Pearson Bearden	Woodbridge, Va.
Joanne Hartman Beck	Colonial Heights, Va.
Nancy Jane Belden	Dallas, Texas
Carol Ann Belsky	Fredericksburg, Va.
Tanni Anne Berthelsen	Washington, D. C.
Michele Ameen Billy	Hopewell, Va.
Linda Jeanne Bishop	Lynchburg, Va.
Laura King Blakemore	Norfolk, Va.
Nancy Louise Bolish	Vienna, Va.
Deborah Ann Bourke	Sumerville, N. J.
Jo Anne Bourquard	Etters, Pa.

Caren Rosenberg Bowman
Kitty Lea Bradley
Mary Trolinger Bradley
Janice Elaine Brady
Elaine Marie Brennan
Dale Harrison Broughton
Brenda Garrett Brown
Deborah Childs Brown
Marguerite Helen Brown
Nancy Lauder Brown
Barbara Anne Bruce
Catherine M. Brunson
Betsy Morrell Bryan
Carol Wilson Bryant
Anne Louise Bullard
Mary Anne Monica Burns
Jane Roberts Burruss
Susan Mary Byrne
Barbara Lee Cabell
Kathleen Frances Callery
Margaret Marie Calnan
Audrey Magdalene Cardwell
Mary Belle Carson
Katherine Shelton Castle
Mary Jane Chandler
Margaret Winton Clark
Sandra Brown Claybrook
Elizabeth Gring Coffin
Sharon Lynne Collins
Christina Convery
Christina Grier Potts Conway
Harriet Lee Copley
Sheryl Godfrey Corr
Christine Ellen Cosgrove
Susan Carol Cottingham
Patricia Ann Cully
Margaret Ann Davis
Martha Catherine Davis
Mona S. Davis
Rebecca Lynn Davis
Kathleen Ellen Dawson
Marjorie Louise DeLoach
Mary Cecilia Desmond

Dumfries, Va.
Boyds, Md.
West Nyack, N. Y.
Richmond, Va.
Boonton, N. J.
Alexandria, Va.
Fredericksburg, Va.
Fredericksburg, Va.
Charlottesville, Va.
Fairport, N. Y.
Richmond, Va.
Fredericksburg, Va.
Fredericksburg, Va.
Fredericksburg, Va.
Vicksburg, Miss.
Manakin, Va.
Ruther Glen, Va.
McLean, Va.
Highland Springs, Va.
Mountain Lakes, N. J.
Fairfax, Va.
Athens, Ga.
Fredericksburg, Va.
McLean, Va.
Swampscott, Mass.
Glen Ridge, N. J.
Farmville, Va.
Warrenton, Va.
Portsmouth, Va.
Hampton, Va.
Fredericksburg, Va.
Grafton, Va.
Richmond, Va.
Alexandria, Va.
Morrisville, Pa.
Timonium, Md.
Greenbelt, Md.
Richmond, Va.
Culpeper, Va.
Fredericksburg, Va.
Portsmouth, Va.
Virginia Beach, Va.
Lynchburg, Va.

Evelyn Denise DeZerne
Cynthia Jane DiFrank
Lorence Lee Dillon
Holly Jean Dinger
Eileen A. Dohn
Eva Lillian Doss
Doris Cool Downey
Patricia Ann Doyle
Alice Marie Droste
Christine Duffey
Cindy Duncan
Linda Sue Dunman
Martha Carol Dunn
Robbie Lee Dyer
Susan Floyd Edmonds
Cynthia Baird Ellis
Beverly Louise Estes
Barbara Jean Faulkner
Sharon Ann Ferjanec
Karen Altizer Fields
Carol Jean Finke
Katherine Morton Fisher
Betty Brothers Fitzhugh
Mary Katherine Fleming
Sara Elizabeth Fleming
Sheryl Candace Ford
Virginia Montarea Forrest
Gayle Reed Franklin
Alice Ardele French
Sandra Jean Fromknecht
Linda Worley Fulks
Jamie Fuller
Joyce Anne Garber
Diane Lynn Gardner
Marjorie Joan Garmey
Deborah Elizabeth Gayle
Sandra Alice Gillingham
Barbara Kay Gillis
Candace Eileen Gorham
Madonna Ann Griffin
Sallie Lee Griffin
Ann Madeline Segars Grover
Robin Eleanor Grubmeyer

Alexandria, Va.
Quantico, Va.
Virginia Beach, Va.
Livingston, N. J.
Arlington, Va.
Woodbridge, Va.
Alexandria, Va.
Newtown, Pa.
Richmond, Va.
Annandale, Va.
Salem, Va.
Pearisburg, Va.
Richmond, Va.
Wilmington, Del.
Kilmarnock, Va.
Longmeadow, Mass.
Martinsville, Va.
Alexandria, Va.
Cherry Hill, N. J.
Roanoke, Va.
Newport News, Va.
Jacksonville, Fla.
Fredericksburg, Va.
Richmond, Va.
Richmond, Va.
Church Road, Va.
Marion, Va.
Newark, Del.
Alexandria, Va.
Honolulu, Hawaii
Gaithersburg, Md.
Bridgeton, N. J.
Winchester, Va.
Alexandria, Va.
Lynchburg, Va.
Spotsylvania, Va.
Oxford, Pa.
Newport News, Va.
Sandston, Va.
Fredericksburg, Va.
Alexandria, Va.
Annandale, Va.
Arlington, Va.

Barbara Jane Halliday
 Eugenia Lee Hamilton
 Beverly Eugenia Hammock
 Elizabeth Ellen Hancock
 Susan Johanna Harder
 Jill Anne Hausrath
 Mary Lee Hearne
 Patricia M. Heimbach
 Janet Lynne Hempson
 C. Christina Henkel
 Norah Fox Henry
 Diane Reinhardt Hicks
 Brenda Elaine Hinson
 Leslie Brooks Hogue
 Elizabeth Ann Holler
 Christine Anne Hollis
 Erla Catherine Holloway
 Claudith Dorothea Holmes
 Helen Carter Hopkins
 Mary Ann Horan
 Janet Sisk Horne
 Laura Claydon Hudson
 Pamela Ann Hudson
 Anne Melene Hughes
 Brigitte DeCuyper Hurr
 Jo Anita Hutchins
 Betty Coleman Hutter
 Candace Allyson Jackson
 Rose Mary Jacobs
 Alois Ann Jasuta
 Melissa Catherine Johnson
 Patricia Bouldin Clark Johnson
 Susan Clarke Joyce
 Susan Ann Kain
 Patricia Ann Kane
 Elizabeth Amelia Keith
 Danielle E. Kelley
 Patricia Joan Kelley
 Alice Marie Kelly
 Elizabeth Hilary Kendall
 Patricia Killefer
 Denise Janelle Kincheloe
 Marcia Lorraine Kinhead

Wilmington, Del.
 Bristol, Va.
 Richmond, Va.
 Roanoke, Va.
 Alexandria, Va.
 Bay Shore, N. Y.
 Charlottesville, Va.
 Emmaus, Pa.
 Mechanicsburg, Pa.
 Staunton, Va.
 Paeonian Springs, Va.
 Richmond, Va.
 Warsaw, Va.
 Virginia Beach, Va.
 Williamsburg, Va.
 Rockville, Md.
 Richmond, Va.
 Richmond, Va.
 Roanoke, Va.
 Alexandria, Va.
 Fredericksburg, Va.
 New Orleans, La.
 Richmond, Va.
 South Boston, Va.
 Nassawadox, Va.
 Atlanta, Ga.
 Denver, Colo.
 Sterling Park, Va.
 Norfolk, Va.
 Oakmont, Pa.
 Pleasantville, N. Y.
 Wheeling, W. Va.
 Canandaigua, N. Y.
 Chester, Va.
 Alexandria, Va.
 Amherst, Va.
 Woodbridge, Va.
 Falls Church, Va.
 Arlington, Va.
 Vienna, Va.
 Lexington, Mass.
 Harrisonburg, Va.
 Bristol, Va.

Cynthia Sue Kissar
Diane Linda Klalo
Carol Marie Kling
Leslie Susan Kraus
Marilyn Marie Kucher
D. Karen Kuhn
Barbara Jean Lacy
Karen Ann Laino
Mary Elizabeth LaPenta
Doris Agnes Lee
Lisa Anne Lehman
Sharon Joyce Letherer
Shirley Heflin LeVines
Kathleen Elizabeth Lewis
Ruth Helen Lewis
Susan Tyler Liebenow
Victoria Dorothy Lillicrapp
Patricia Ann Little
Freda Jo Lodge Vendig
Amy Louise Long
Mary Elizabeth Luce
Michele Claire McAdam
Kathleen McCarthy
Julia Anne McClelland
Carol Anne McCormack
Frances Davene McDonald
Gail Marjorie McDonald
Marjorie Lynn McDonald
Anne Lawrence McIntosh
Marilyn McKinney
Elizabeth Margaret Musser McLellan
Virginia Kathryn McLeod
Kathryn Lindsay McMichael
Sharman Lynn Mabry
Carolyn Wolfe Maccubin
Martha Boyd Mackey
Mary Diane Weaver Mann
Brenda Jeanne Marable
Kathryn Irvine Marilla
Mary Helen Marocchi
Patricia Ann Naybor Marshall
Muriel Randolph Marston
Carol Loraine Matthews

Fredericksburg, Va.
Hackettstown, N. J.
Dunellen, N. J.
Baltimore, Md.
Burgettstown, Pa.
Alexandria, Va.
Oak Park, Va.
Levittown, Pa.
Richmond, Va.
Alexandria, Va.
Waynesboro, Pa.
Spotsylvania, Va.
Spotsylvania, Va.
Virginia Beach, Va.
Vienna, Va.
Barboursville, W. Va.
Hatboro, Pa.
Westlong Branch, N. J.
Vienna, Va.
Lancaster, Pa.
Bainbridge, Md.
North Wales, Pa.
Arlington, Va.
Silver Spring, Md.
Bellevue, Wash.
Falls Church, Va.
Wilmington, Del.
Annandale, Va.
Richmond, Va.
McLean, Va.
Abingdon, Va.
Ashland, Va.
Rahway, N. J.
Norfolk, Va.
Winchester, Va.
Hampton, Va.
Fredericksburg, Va.
Norfolk, Va.
Parkersburg, W. Va.
Biloxi, Miss.
Charlottesville, Va.
Norge, Va.
Doswell, Va.

- | | |
|---------------------------|----------------------|
| Lorne Matthews | Southampton, N. Y. |
| Sharon Wallace Mercer | Springfield, Va. |
| Holly Katharine Miller | Pittsburgh, Pa. |
| Norvell Alston Miller | Richmond, Va. |
| Barbara Ann Mingee | Hampton, Va. |
| Jeanne Wadman Mitchell | Newport News, Va. |
| Sidoux Magruder Mitchell | Annandale, Va. |
| Ann Locke Mize | Quantico, Va. |
| Elizabeth Muirheid Mook | Waynesboro, Va. |
| Cecily Joan Moore | Annandale, Va. |
| Deborah Kathleen Moreland | Annandale, Va. |
| Barbara Frances Morrone | New Haven, Conn. |
| Jacqueline Louise Morrow | Arlington, Va. |
| Florence Helen Moses | Springfield, Va. |
| Jean Diane Mowrey | Big Run, Pa. |
| Joanne Catherine Neher | Charlottesville, Va. |
| Noranne Stradley Newhouse | Pennsville, N. J. |
| Mary Randolph Nichols | Richmond, Va. |
| Jenny Charlene Nobles | Hopewell, Va. |
| Kathleen Ann O'Brien | McLean, Va. |
| Harriette Bridget O'Grady | Richmond, Va. |
| Deborah Ann Oja | Alexandria, Va. |
| Joan Antoinette Olds | Manhasset, N. Y. |
| Christal Lynn Ott | Springfield, Va. |
| Carol Elaine Owen | Chatham, Va. |
| Susan Elizabeth Owens | Muncie, Ind. |
| Barbara Anne Oxley | Fairfax, Va. |
| Shelia Doreen Page | Lynchburg, Va. |
| Victoria Lou Palm | Warren, Ohio |
| Lee Duval Parker | Dunellen, N. J. |
| Alice Kay Partlow | Culpeper, Va. |
| Ruth Elizabeth Peele | Norfolk, Va. |
| Jean S. Pennell | Woodbridge, Va. |
| Pamela Lynn Percy | Millville, N. J. |
| Elizabeth Wright Pfromm | Lafayette Hill, Pa. |
| Diane Virginia Pilgrim | Wantagh, N. Y. |
| Grace Ann Pilonero | McLean, Va. |
| Monica Louise Pripeton | Springfield, Va. |
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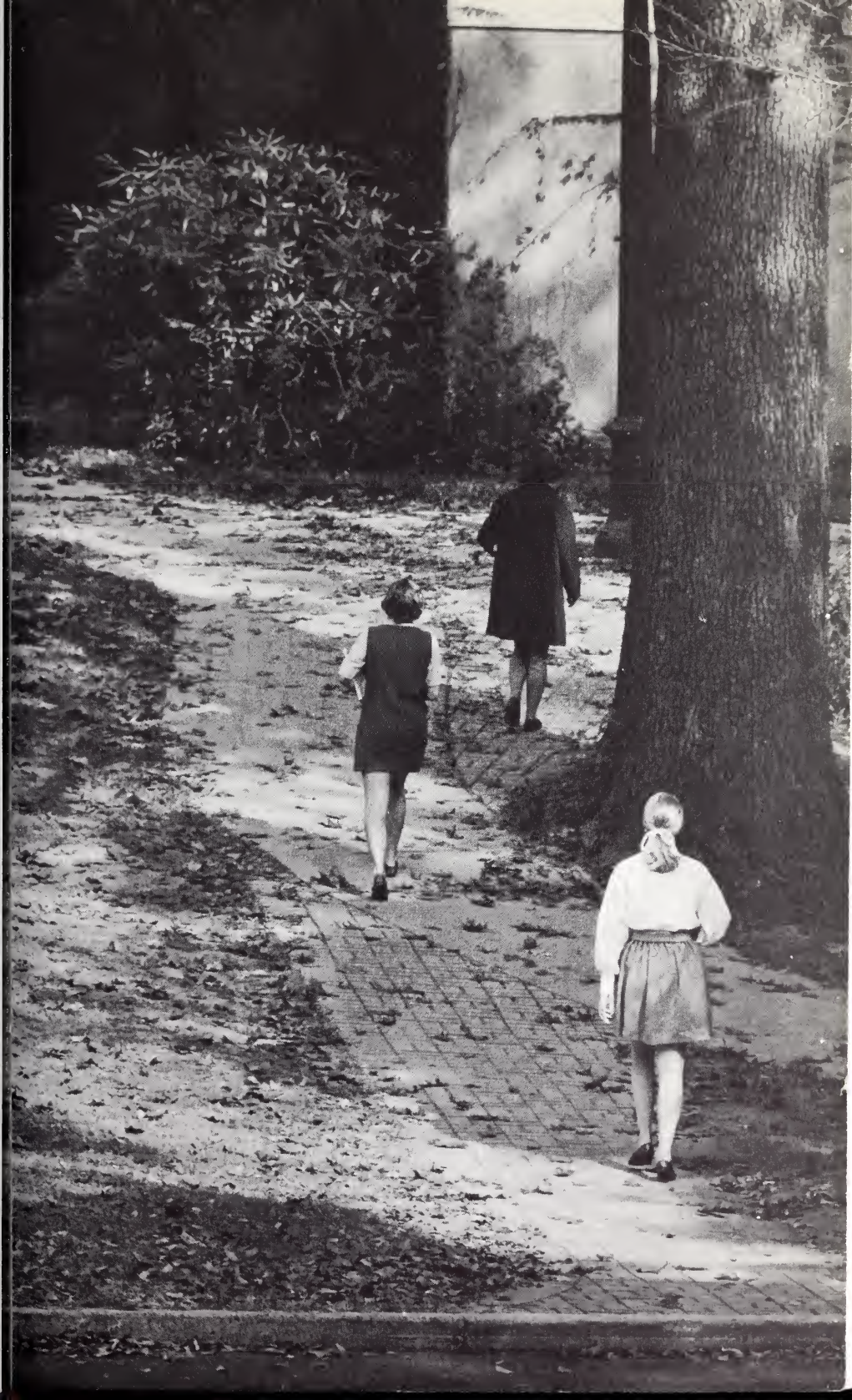
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